

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533342

Luminaire Tested: **GALN-SA8D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49663 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

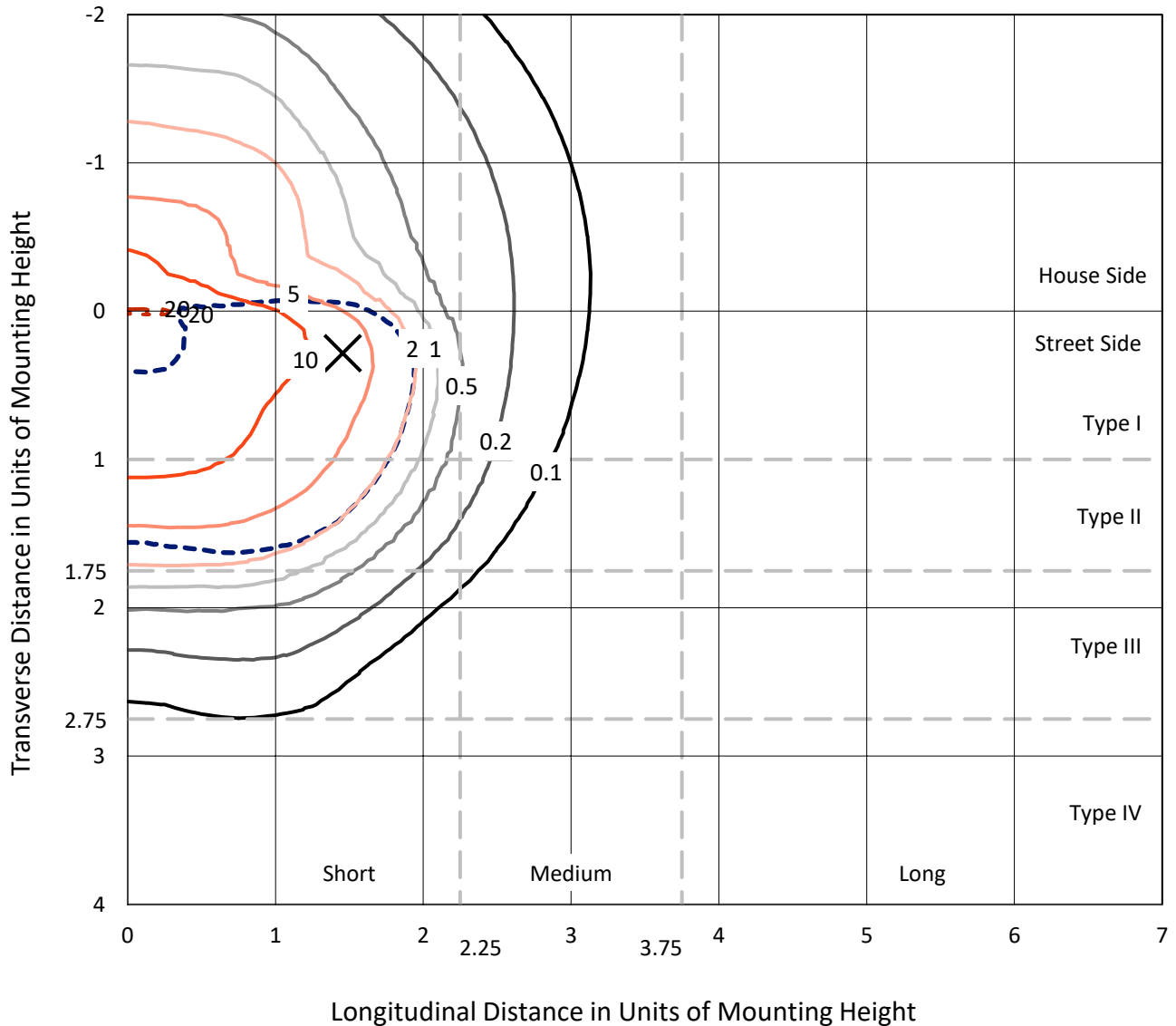
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

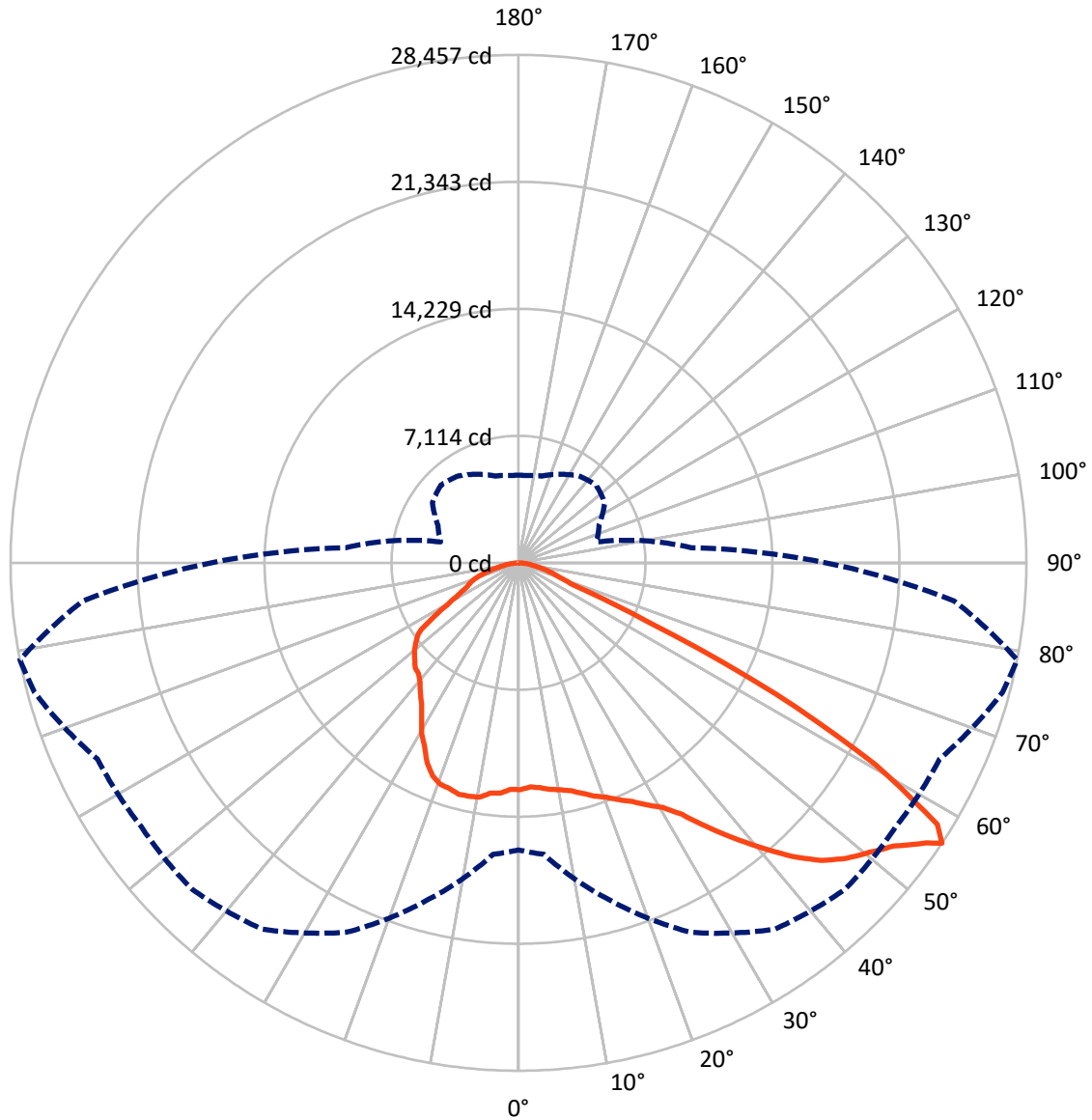
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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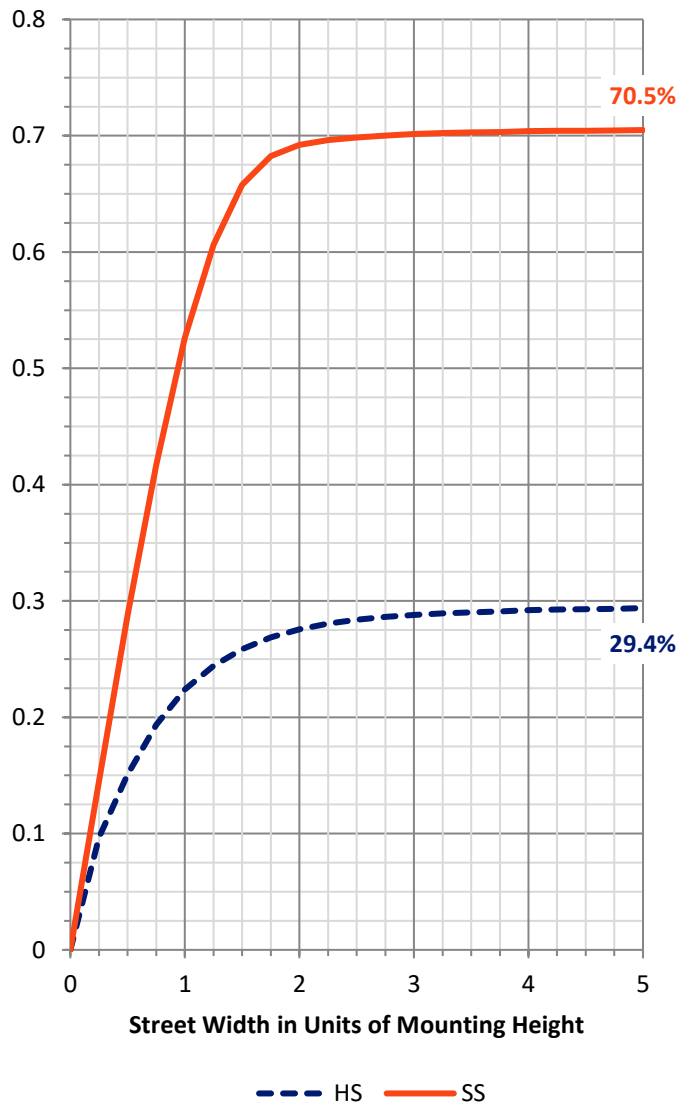
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14666.6	0.0	14666.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	34996.4	0.0	34996.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	49663.0	0.0	49663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1155.3	2.3
10°-20°	3161.7	6.4
20°-30°	5409.1	10.9
30°-40°	8290.1	16.7
40°-50°	11204.0	22.6
50°-60°	12868.2	25.9
60°-70°	5865.7	11.8
70°-80°	1446.2	2.9
80°-90°	262.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49663.0	100.0
0°-180°	49663.0	100.0

Coefficient of Utilization

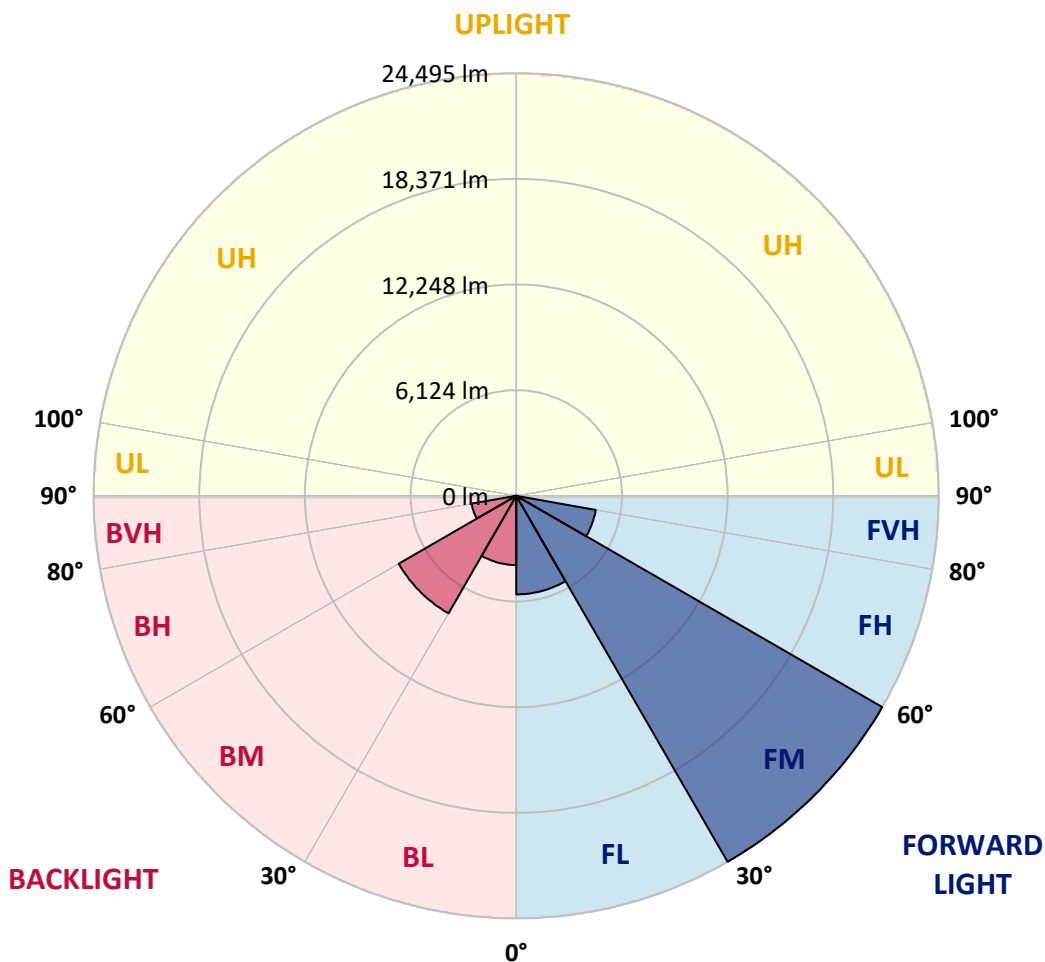


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5714.1	11.5			
FM (30°-60°)	24495.3	49.3			
FH (60°-80°)	4682.1	9.4			G2/5000
FVH (80°-90°)	104.9	0.2			G2/225
BL (0°-30°)	4011.9	8.1	B4/5000		
BM (30°-60°)	7866.9	15.8	B4/8500		
BH (60°-80°)	2629.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	157.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8
2.5°	12088.2	12057.2	12131.5	12187.1	12255.2	12341.8	12385.1	12409.8	12626.4	12570.7	12737.7
5°	11828.3	11747.9	11803.6	11846.9	11964.4	12069.6	12187.1	12372.7	12570.7	12657.3	12861.5
7.5°	11599.4	11556.1	11543.8	11574.7	11735.5	11871.6	12075.8	12348.0	12669.7	12812.0	12929.5
10°	11222.1	11160.2	11253.0	11457.1	11500.5	11785.0	12020.1	12409.8	12688.2	12935.7	13282.1
12.5°	11055.0	10993.2	11011.7	11129.3	11432.4	11704.6	11983.0	12422.2	13009.9	13108.9	13572.9
15°	11321.0	11259.2	11277.7	11246.8	11537.6	11679.9	12119.1	12669.7	13232.6	13399.7	13894.6
17.5°	11927.3	11933.5	11853.1	11785.0	11717.0	12020.1	12323.2	12818.1	13319.2	13739.9	14111.1
20°	13084.2	12880.0	12719.2	12335.6	12230.4	12360.4	12743.9	13220.3	13671.9	14018.3	14439.0
22.5°	13975.0	13993.6	13764.7	13133.7	12904.8	12960.4	13288.3	13678.1	14173.0	14420.4	14903.0
25°	15268.0	15138.0	14890.6	14389.5	13876.0	13919.3	14160.6	14513.2	14649.3	14822.5	15348.4
27.5°	16449.5	16486.7	15997.9	15527.8	14890.6	14766.9	15199.9	15261.8	15032.9	15360.7	15540.2
30°	17649.7	17618.8	17297.1	16746.5	16121.7	16146.4	16338.2	16035.1	15719.6	15899.0	16022.7
32.5°	18893.2	18540.5	18528.2	18033.3	17556.9	17328.0	17092.9	17241.4	16752.7	16789.8	16672.3
35°	19889.2	19938.7	19654.1	19301.5	19066.4	18664.3	18020.9	18286.9	18194.1	18150.8	17643.5
37.5°	20613.0	20421.2	20563.5	20445.9	20223.2	19722.1	19054.0	19307.6	19351.0	19561.3	18973.6
40°	21206.9	21126.4	21503.8	21565.7	21411.0	20328.4	19128.2	19883.0	20532.5	20990.3	20291.3
42.5°	21491.4	21664.7	22060.6	22536.9	22190.5	21033.6	19511.8	20322.2	21769.8	22493.6	21540.9
45°	21875.0	21652.3	22240.0	23112.3	23118.4	21627.5	19883.0	20916.1	22734.9	23786.6	22394.6
47.5°	21485.2	21596.6	22202.9	23310.2	23594.8	22252.4	20885.2	21757.4	23798.9	24733.1	23186.5
50°	20613.0	20835.7	21943.0	23093.7	23953.6	22914.3	22035.8	22666.8	24782.6	25494.0	23316.4
52.5°	19703.6	19827.3	21559.5	23260.7	24114.5	23768.0	23576.2	23922.7	25982.7	26353.9	23477.3
55°	17229.0	17816.7	20291.3	23186.5	24900.1	25308.4	25159.9	25667.2	27343.7	27714.9	24355.7
56°	16084.6	16393.9	19530.4	22840.1	25054.8	25871.4	25797.1	26026.0	28067.5	28457.3	24491.8
57.5°	13968.8	13993.6	16653.7	21305.8	24473.3	26038.4	25964.2	26143.6	27925.3	27659.2	23297.9
60°	8741.3	9124.9	11333.4	16387.7	20810.9	24157.8	24578.4	23137.0	23545.3	22982.3	18126.1
62.5°	4528.4	4472.7	5938.9	9582.7	13814.2	17297.1	17686.8	17618.8	16987.8	16165.0	11840.7
65°	2258.0	2270.4	3105.6	4744.9	7077.2	9056.8	10145.6	10263.2	8586.7	7900.0	5617.2
67.5°	1639.4	1701.3	2233.3	2901.4	3334.5	3730.4	4571.7	4485.1	3396.3	3229.3	2994.2
70°	1274.4	1330.1	1812.6	2214.7	2010.6	2010.6	2190.0	2264.2	2418.9	2486.9	2567.3
72.5°	928.0	971.3	1385.7	1528.0	1317.7	1416.7	1639.4	1812.6	1973.5	1998.2	2091.0
75°	637.2	674.3	909.4	841.3	791.9	977.4	1200.2	1361.0	1478.5	1540.4	1596.1
77.5°	414.5	426.9	519.7	439.2	507.3	631.0	779.5	915.6	1033.1	1082.6	1095.0
80°	185.6	204.2	222.7	278.4	352.6	451.6	556.8	668.1	742.4	760.9	798.0
82.5°	105.2	105.2	136.1	198.0	259.8	327.9	402.1	482.5	569.1	587.7	581.5
85°	55.7	55.7	80.4	117.5	160.8	191.8	185.6	191.8	204.2	235.1	228.9
87.5°	18.6	18.6	24.7	24.7	30.9	37.1	30.9	43.3	55.7	55.7	55.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8
2.5°	12688.2	12743.9	12669.7	12830.5	12830.5	12799.6	12644.9	12694.4	12731.5	12731.5	12762.5
5°	12929.5	12910.9	12960.4	12768.7	12651.1	12607.8	12354.2	12230.4	12125.3	12119.1	12026.3
7.5°	13065.6	13016.1	12997.6	12855.3	12335.6	12020.1	11475.7	11160.2	11092.2	10850.9	10943.7
10°	13282.1	13374.9	13282.1	12508.8	11785.0	11061.2	10529.2	10040.5	9848.7	9694.0	9601.2
12.5°	13727.5	13684.2	13146.0	12100.5	11086.0	10226.1	9434.2	8920.7	8729.0	8592.9	8580.5
15°	14104.9	13888.4	13065.6	11457.1	9997.2	9081.6	8432.0	8067.0	7980.4	7992.8	8048.5
17.5°	14234.8	14086.4	12644.9	10789.0	9186.8	8110.3	7807.2	7751.5	7831.9	7924.7	7949.5
20°	14439.0	14203.9	12471.7	9879.6	8184.6	7504.1	7485.5	7683.5	7831.9	7968.0	7986.6
22.5°	14865.8	14271.9	11908.8	9019.7	7497.9	7324.7	7504.1	7671.1	7900.0	8011.3	7912.4
25°	14989.6	14123.5	11116.9	7986.6	7064.8	7213.3	7405.1	7634.0	7794.8	7856.7	7900.0
27.5°	15094.7	13894.6	10046.7	7299.9	6928.7	7207.1	7405.1	7596.9	7683.5	7739.1	7788.6
30°	15391.7	13826.5	9118.7	6842.1	6842.1	7083.4	7337.0	7386.5	7504.1	7572.1	7658.7
32.5°	15540.2	13356.4	8166.0	6551.4	6755.5	7145.3	7163.8	7256.6	7262.8	7318.5	7225.7
35°	15929.9	13022.3	7281.4	6341.0	6792.6	7083.4	7176.2	7120.5	6817.4	6668.9	6699.8
37.5°	16214.5	12855.3	6644.2	6316.3	6798.8	7151.4	7200.9	6780.3	6464.8	6217.3	6279.2
40°	16981.6	12440.8	6161.6	6273.0	6854.5	7225.7	7089.6	6631.8	6062.6	5809.0	5765.7
42.5°	17569.3	12143.8	5858.5	6223.5	6897.8	7330.8	7033.9	6334.8	5753.3	5518.2	5580.1
45°	18249.8	12075.8	5697.6	6235.9	6972.0	7386.5	6965.8	6105.9	5487.3	5394.5	5376.0
47.5°	18491.0	11587.1	5524.4	6130.7	6953.5	7368.0	6737.0	5932.7	5388.3	5400.7	5450.2
50°	18088.9	11086.0	5394.5	5914.2	6829.7	7200.9	6378.1	5703.8	5332.6	5487.3	5573.9
52.5°	17575.5	10572.5	5128.5	5623.4	6576.1	6941.1	6211.1	5691.5	5277.0	5227.5	5246.0
55°	17730.1	10151.8	4757.3	5227.5	6167.8	6458.6	6025.5	5573.9	5140.9	4955.3	5017.1
56°	17229.0	9718.8	4516.0	4980.0	5889.4	6149.2	5932.7	5468.7	5029.5	4905.8	4905.8
57.5°	15812.4	8265.0	4200.5	4584.1	5301.7	5611.0	5753.3	5406.9	4905.8	4689.3	4695.5
60°	11661.3	5877.0	3767.5	4039.7	4392.3	4639.8	5301.7	5233.7	4596.5	4448.0	4392.3
62.5°	7188.6	4293.3	3458.2	3563.3	3742.8	3946.9	4627.4	4738.8	4268.6	4107.7	4070.6
65°	4027.3	3285.0	3223.1	3266.4	3353.0	3458.2	3841.7	4089.2	3767.5	3520.0	3507.7
67.5°	2944.7	2938.5	2988.0	3025.1	3062.3	3062.3	3155.0	3254.0	3210.7	3012.8	2994.2
70°	2616.8	2635.4	2672.5	2678.7	2691.1	2647.8	2573.5	2542.6	2592.1	2468.4	2443.6
72.5°	2159.0	2220.9	2264.2	2270.4	2202.3	2146.7	2047.7	1942.5	1905.4	1880.7	1874.5
75°	1657.9	1701.3	1719.8	1713.6	1688.9	1608.5	1490.9	1385.7	1317.7	1243.5	1280.6
77.5°	1119.7	1181.6	1212.5	1212.5	1175.4	1051.7	996.0	915.6	847.5	767.1	779.5
80°	785.7	829.0	878.5	872.3	810.4	748.6	668.1	593.9	538.2	476.4	470.2
82.5°	587.7	612.5	637.2	624.8	581.5	519.7	464.0	395.9	334.1	290.8	290.8
85°	210.3	228.9	278.4	290.8	315.5	315.5	266.0	222.7	179.4	148.5	148.5
87.5°	61.9	61.9	68.1	68.1	61.9	68.1	55.7	61.9	68.1	43.3	43.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)