

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: P532634

Luminaire Tested: **GALN-SA8A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28210 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

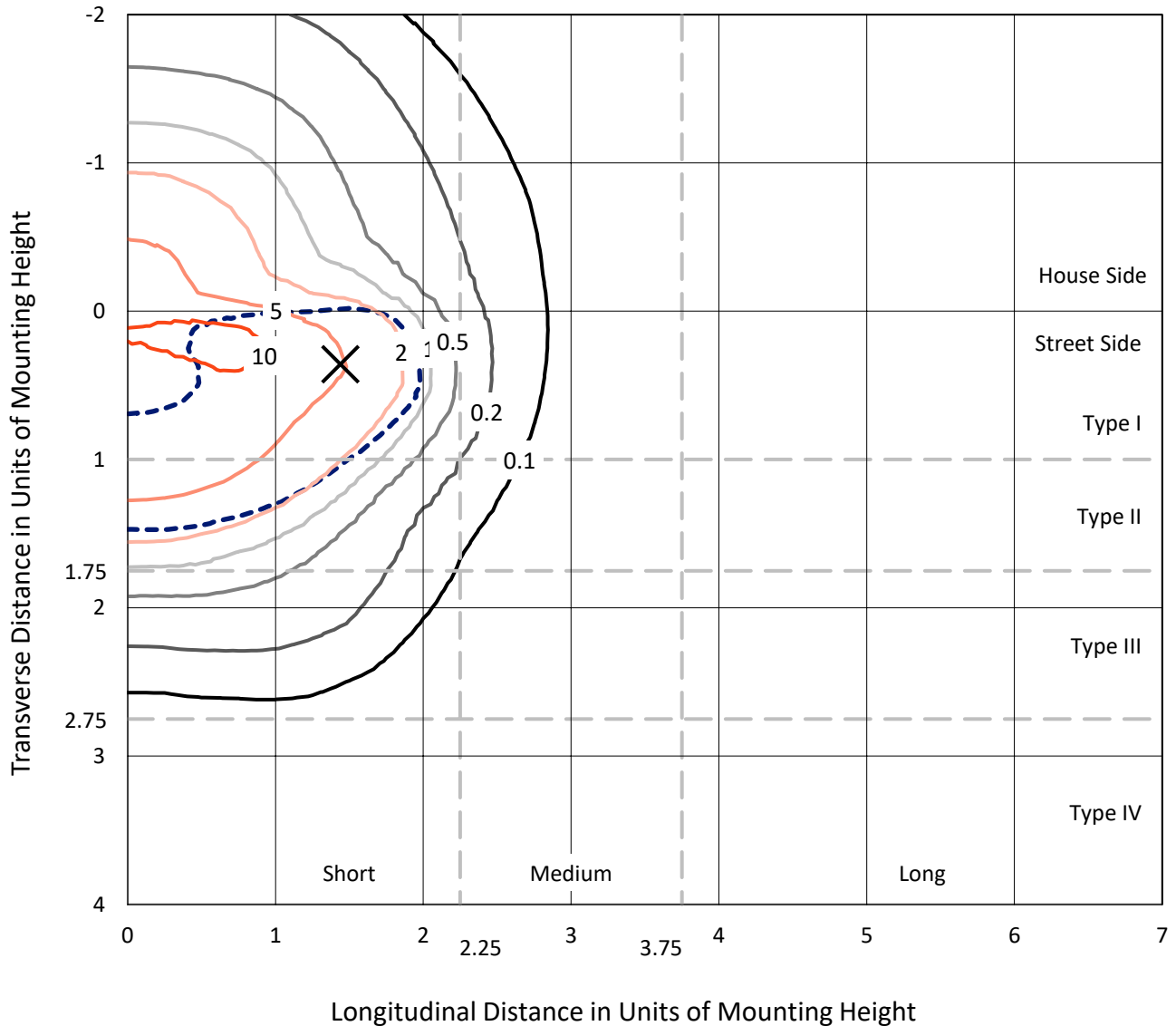
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

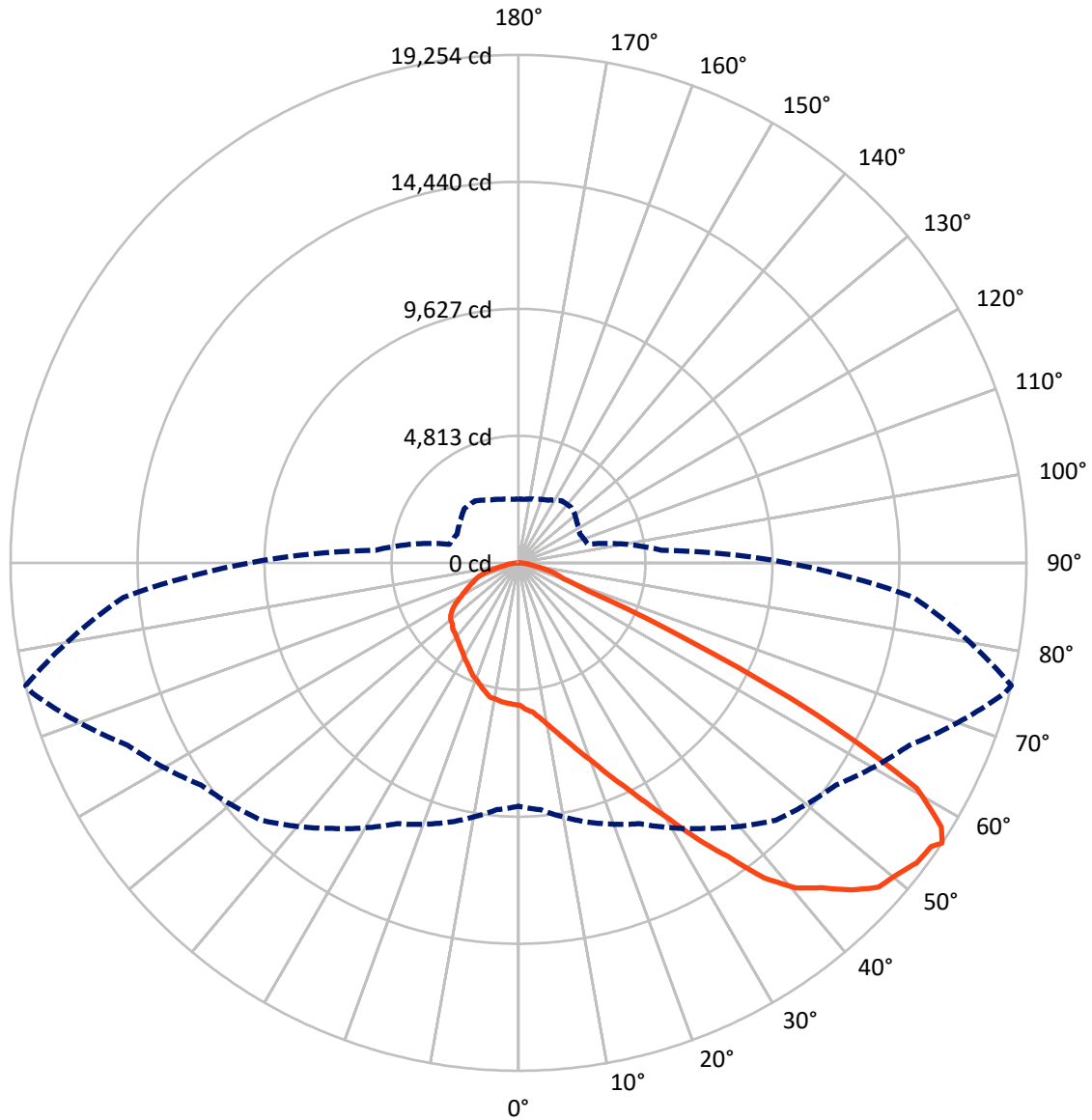
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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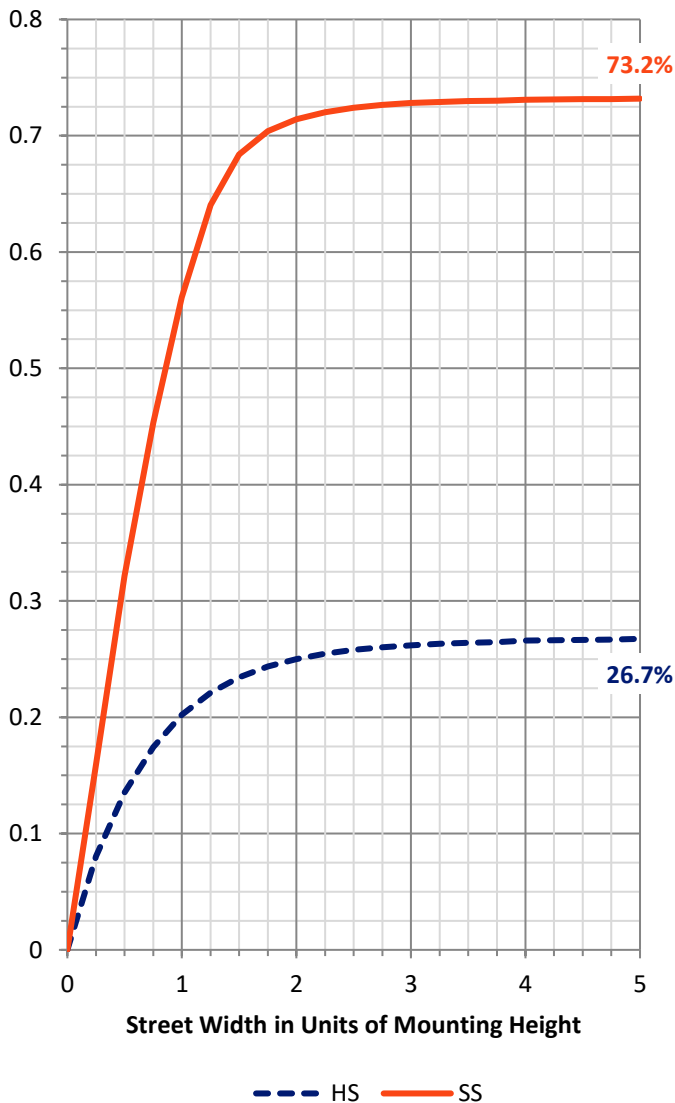
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7584.8	0.0	7584.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20625.2	0.0	20625.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	28210.0	0.0	28210.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.3	1.9
10°-20°	1681.5	6.0
20°-30°	2940.7	10.4
30°-40°	4604.3	16.3
40°-50°	6697.9	23.7
50°-60°	7361.4	26.1
60°-70°	3285.8	11.6
70°-80°	949.1	3.4
80°-90°	153.9	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°	28210.0	100.0
0°-180°	28210.0	100.0



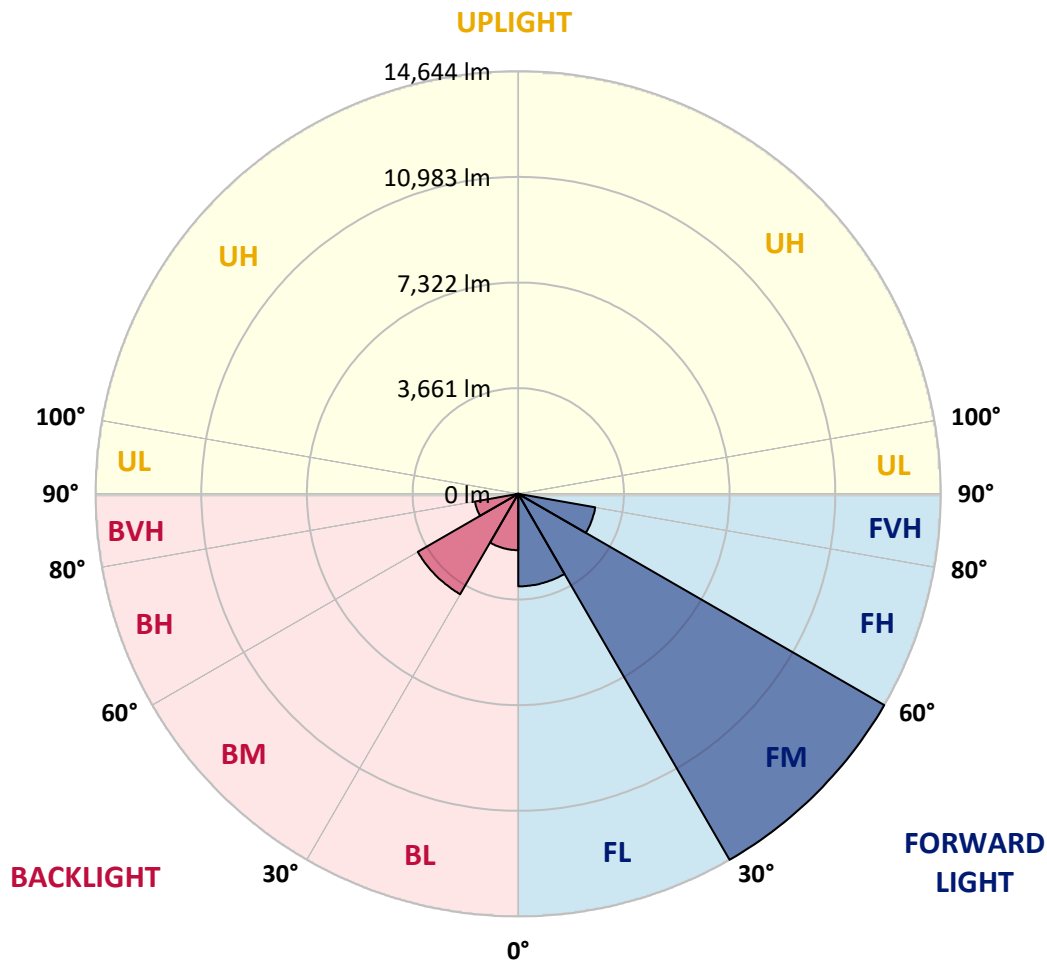
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3205.7	11.4			
FM (30°-60°)	14644.3	51.9			
FH (60°-80°)	2708.8	9.6			G2/5000
FVH (80°-90°)	66.3	0.2			G1/100
BL (0°-30°)	1951.7	6.9	B3/2500		
BM (30°-60°)	4019.3	14.2	B3/5000		
BH (60°-80°)	1526.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	87.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6
2.5°	5946.2	5851.1	5843.8	5818.2	5832.8	5767.0	5697.5	5606.1	5511.0	5569.5	5430.5
5°	6363.0	6235.1	6286.3	6198.5	6209.5	6121.7	5979.1	5873.0	5756.0	5686.5	5587.8
7.5°	6509.3	6520.3	6556.9	6542.2	6469.1	6469.1	6374.0	6187.5	5982.7	5942.5	5777.9
10°	6706.8	6710.5	6670.2	6681.2	6783.6	6736.1	6651.9	6571.5	6308.2	6260.7	5968.1
12.5°	6776.3	6710.5	6776.3	6834.8	6955.5	7021.3	7003.0	6944.5	6662.9	6630.0	6202.1
15°	6787.3	6747.0	6801.9	6933.5	7039.6	7317.5	7456.5	7416.2	7043.2	7046.9	6465.4
17.5°	6736.1	6790.9	6812.9	6926.2	7171.2	7430.9	7833.1	7888.0	7580.8	7533.3	6798.2
20°	6805.5	6765.3	6794.6	6897.0	7222.4	7628.3	8154.9	8517.0	8085.5	8052.5	7142.0
22.5°	7072.5	7017.6	7010.3	7076.1	7310.2	7730.7	8495.0	9146.0	8699.8	8718.1	7569.8
25°	7280.9	7310.2	7284.6	7280.9	7427.2	7884.3	8944.8	9895.6	9533.6	9427.6	8074.5
27.5°	7639.3	7708.8	7657.6	7727.1	7694.2	8114.7	9266.6	10725.8	10433.2	10290.6	8531.6
30°	8136.7	8173.2	8125.7	8125.7	8027.0	8436.5	9559.2	11592.5	11471.8	11278.0	9069.2
32.5°	8791.2	8846.1	8751.0	8696.2	8681.5	8915.6	10085.8	12448.2	12653.0	12488.4	9782.3
35°	9657.9	9625.0	9511.7	9460.5	9263.0	9650.6	10868.4	13431.9	13969.5	13676.9	10645.3
37.5°	10422.2	10371.0	10363.7	10078.5	10126.0	10444.2	11533.9	14177.9	15245.7	15161.6	11555.9
40°	11135.3	11182.9	11259.7	11098.8	11025.6	11376.7	12309.2	14748.4	16236.7	16203.8	12258.0
42.5°	11899.6	11855.8	11991.1	11855.8	11746.0	12243.4	13150.3	15143.3	17107.1	16836.5	12993.1
45°	13007.7	12868.7	12916.3	12927.2	12846.8	13029.6	13497.7	15428.6	17717.8	17688.5	13530.6
47.5°	13932.9	13936.5	13856.1	13793.9	13548.9	13731.8	13885.3	15607.8	18419.9	18372.4	13739.1
50°	14276.6	14229.1	14463.1	14598.4	14613.1	14240.1	14188.9	15706.5	18789.3	18580.8	13947.5
52.5°	13040.6	13084.5	13453.8	14258.4	14722.8	14763.0	14543.6	15911.3	18939.2	18895.3	14115.7
55°	10495.4	10707.5	11314.5	12243.4	13344.1	14554.6	14927.6	16123.4	19019.7	18983.1	14861.7
56°	9226.4	9391.0	10180.9	10908.6	12290.9	13797.6	14686.2	16350.1	19081.8	19253.7	15037.3
57.5°	7427.2	7617.4	8184.2	9010.7	10641.7	12356.7	14020.7	16072.2	18840.5	18906.3	15165.3
60°	4644.3	4662.6	5342.8	5887.6	7035.9	8710.8	10700.2	13984.1	17436.2	17341.1	13622.0
62.5°	3046.2	3049.9	3667.9	4114.0	4637.0	5021.0	6297.2	9274.0	12865.1	12696.8	9698.2
65°	2139.3	2186.8	2665.9	3262.0	3474.1	3272.9	3232.7	4889.3	7185.9	6944.5	5211.1
67.5°	1565.2	1568.8	1993.0	2633.0	2940.2	2490.4	2022.3	2388.0	2845.1	2837.8	2413.6
70°	1034.9	1078.8	1404.3	1967.4	2318.5	2000.3	1652.9	1707.8	1810.2	1810.2	1795.6
72.5°	603.4	643.6	859.4	1247.0	1301.9	1250.7	1309.2	1462.8	1528.6	1524.9	1506.7
75°	343.8	362.0	409.6	519.3	647.3	764.3	961.8	1108.0	1173.9	1214.1	1166.6
77.5°	201.1	212.1	241.4	296.2	336.4	413.2	522.9	625.3	713.1	702.1	709.4
80°	106.1	106.1	135.3	175.5	234.0	292.6	347.4	405.9	453.5	464.4	475.4
82.5°	62.2	65.8	87.8	128.0	168.2	208.4	267.0	307.2	351.1	354.7	362.0
85°	32.9	36.6	54.9	84.1	113.4	128.0	131.6	124.3	135.3	128.0	146.3
87.5°	11.0	11.0	18.3	14.6	14.6	18.3	21.9	21.9	29.3	29.3	29.3
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°	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6	5397.6
2.5°	5426.9	5426.9	5364.7	5247.7	5229.4	5181.9	5138.0	5134.3	5101.4	5072.2	5057.5
5°	5529.3	5415.9	5324.5	5218.4	5094.1	5035.6	4969.8	4896.6	4867.4	4896.6	4893.0
7.5°	5646.3	5551.2	5276.9	5079.5	4936.8	4878.3	4805.2	4728.4	4735.7	4735.7	4684.5
10°	5759.7	5631.7	5192.8	4940.5	4732.1	4688.2	4648.0	4677.2	4713.8	4721.1	4688.2
12.5°	5949.8	5660.9	5152.6	4801.5	4669.9	4574.8	4600.4	4680.9	4757.7	4735.7	4761.3
15°	6092.4	5686.5	4969.8	4658.9	4494.4	4538.2	4629.7	4684.5	4812.5	4797.9	4823.5
17.5°	6231.4	5701.1	4790.6	4468.8	4399.3	4520.0	4589.4	4746.7	4786.9	4874.7	4907.6
20°	6516.6	5730.4	4607.7	4351.7	4329.8	4468.8	4589.4	4662.6	4750.3	4827.1	4827.1
22.5°	6662.9	5715.8	4487.0	4198.1	4267.6	4355.4	4465.1	4589.4	4589.4	4662.6	4666.2
25°	6845.8	5657.3	4296.9	4125.0	4176.2	4260.3	4384.7	4340.8	4388.3	4388.3	4446.8
27.5°	7054.2	5532.9	4132.3	3993.4	4095.8	4187.2	4205.5	4176.2	4121.4	4114.0	4092.1
30°	7222.4	5379.3	4011.6	3949.5	4033.6	4084.8	4026.3	3964.1	3869.0	3861.7	3810.5
32.5°	7452.8	5189.2	3861.7	3839.8	3934.9	3938.5	3920.2	3825.1	3686.2	3627.7	3569.2
35°	7840.4	5079.5	3748.3	3781.3	3810.5	3799.5	3766.6	3664.2	3525.3	3499.7	3477.7
37.5°	8125.7	4999.0	3631.3	3671.6	3697.2	3711.8	3613.0	3499.7	3503.3	3452.1	3437.5
40°	8447.5	4947.8	3536.2	3554.5	3558.2	3605.7	3485.0	3430.2	3455.8	3422.9	3444.8
42.5°	8860.7	4962.4	3437.5	3422.9	3492.4	3474.1	3415.6	3342.4	3357.1	3258.3	3272.9
45°	9080.1	5061.2	3379.0	3313.2	3390.0	3386.3	3309.5	3240.0	3152.3	2962.1	2969.4
47.5°	9226.4	5086.8	3240.0	3196.2	3276.6	3324.1	3236.4	3075.5	2951.1	2815.8	2782.9
50°	9376.4	5134.3	3174.2	3082.8	3115.7	3229.1	3119.4	2965.8	2845.1	2724.4	2742.7
52.5°	9508.0	5225.7	3046.2	2910.9	2969.4	3093.8	3035.2	2848.7	2717.1	2618.4	2589.1
55°	10093.1	5430.5	2830.5	2654.9	2793.9	2951.1	2918.2	2691.5	2548.9	2497.7	2490.4
56°	10184.5	5437.8	2717.1	2567.2	2695.2	2903.6	2863.4	2622.0	2494.0	2413.6	2417.2
57.5°	10199.2	5350.1	2556.2	2486.7	2596.4	2834.1	2782.9	2567.2	2391.6	2318.5	2296.5
60°	8974.1	4176.2	2355.1	2311.2	2439.2	2622.0	2603.7	2417.2	2219.8	2135.6	2175.9
62.5°	6118.0	3060.8	2197.8	2190.5	2256.3	2435.5	2388.0	2219.8	2055.2	2000.3	1974.7
65°	3561.8	2322.1	2044.2	2015.0	2069.8	2164.9	2197.8	2022.3	1850.4	1813.8	1802.9
67.5°	2102.7	1919.9	1846.7	1799.2	1780.9	1839.4	1865.0	1762.6	1590.8	1539.6	1583.4
70°	1759.0	1707.8	1711.4	1631.0	1587.1	1546.9	1524.9	1433.5	1290.9	1225.1	1206.8
72.5°	1517.6	1495.7	1481.1	1407.9	1367.7	1276.3	1181.2	1089.8	983.7	928.9	932.5
75°	1159.2	1151.9	1159.2	1122.7	1053.2	980.1	892.3	775.3	694.8	625.3	640.0
77.5°	691.2	713.1	724.1	709.4	680.2	614.4	559.5	482.7	405.9	351.1	343.8
80°	475.4	493.7	512.0	493.7	464.4	416.9	358.4	299.9	245.0	215.8	208.4
82.5°	362.0	380.3	391.3	373.0	336.4	285.2	245.0	204.8	160.9	131.6	124.3
85°	131.6	149.9	146.3	175.5	190.2	182.8	157.2	120.7	91.4	65.8	62.2
87.5°	36.6	32.9	36.6	36.6	36.6	32.9	29.3	29.3	29.3	18.3	14.6
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)