

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: P533337

Luminaire Tested: **GALN-SA8D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37626 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

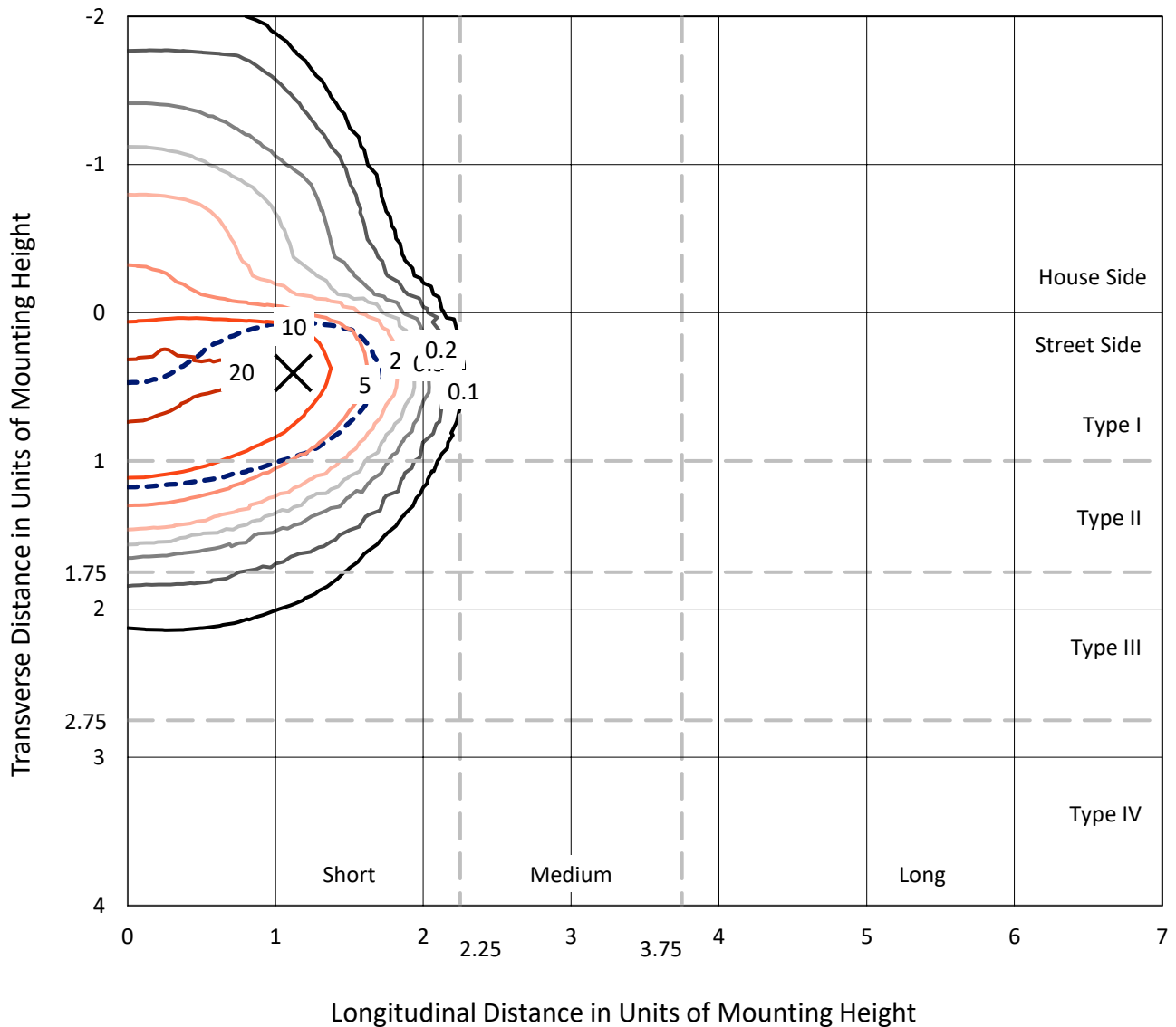
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

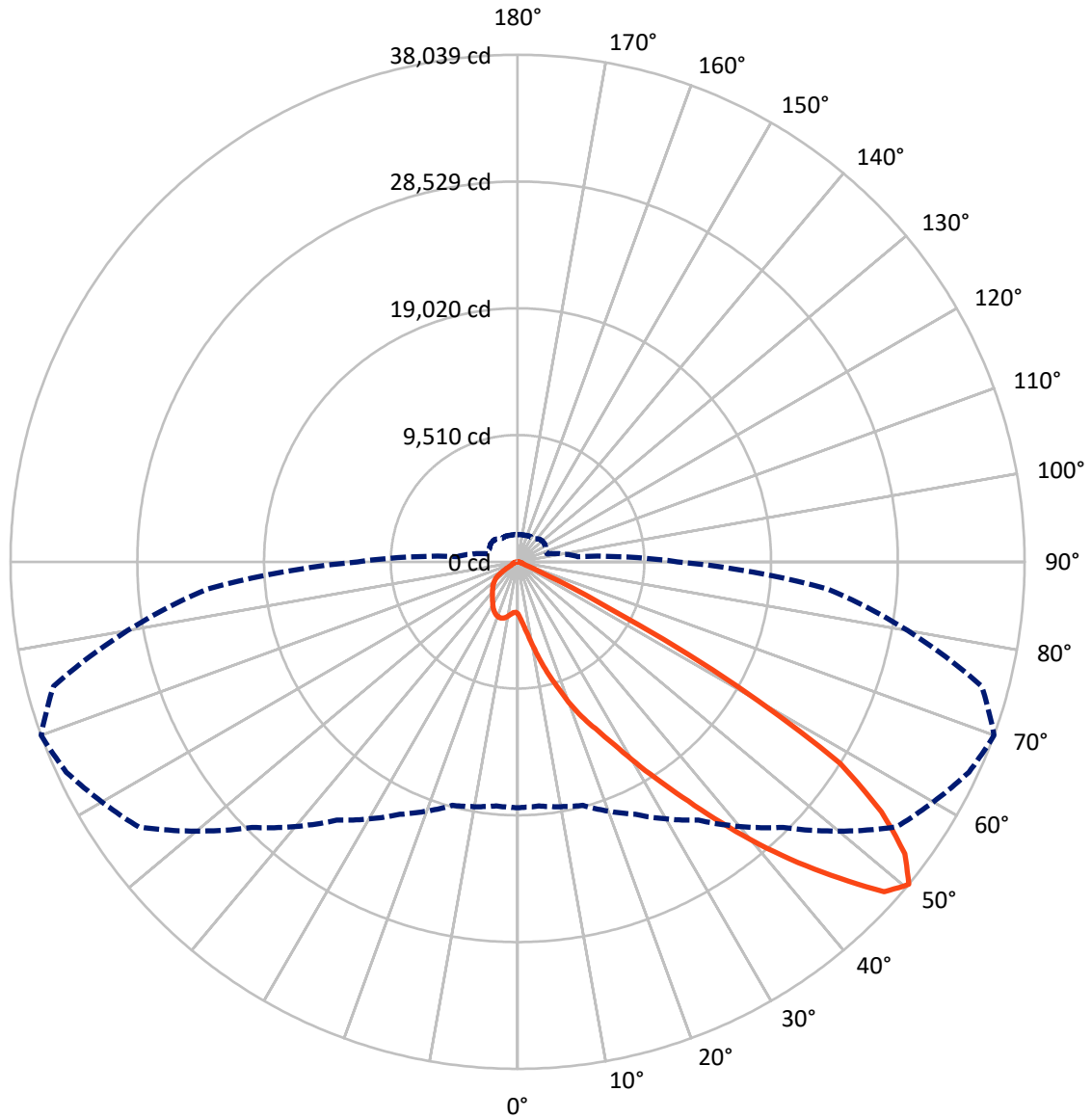
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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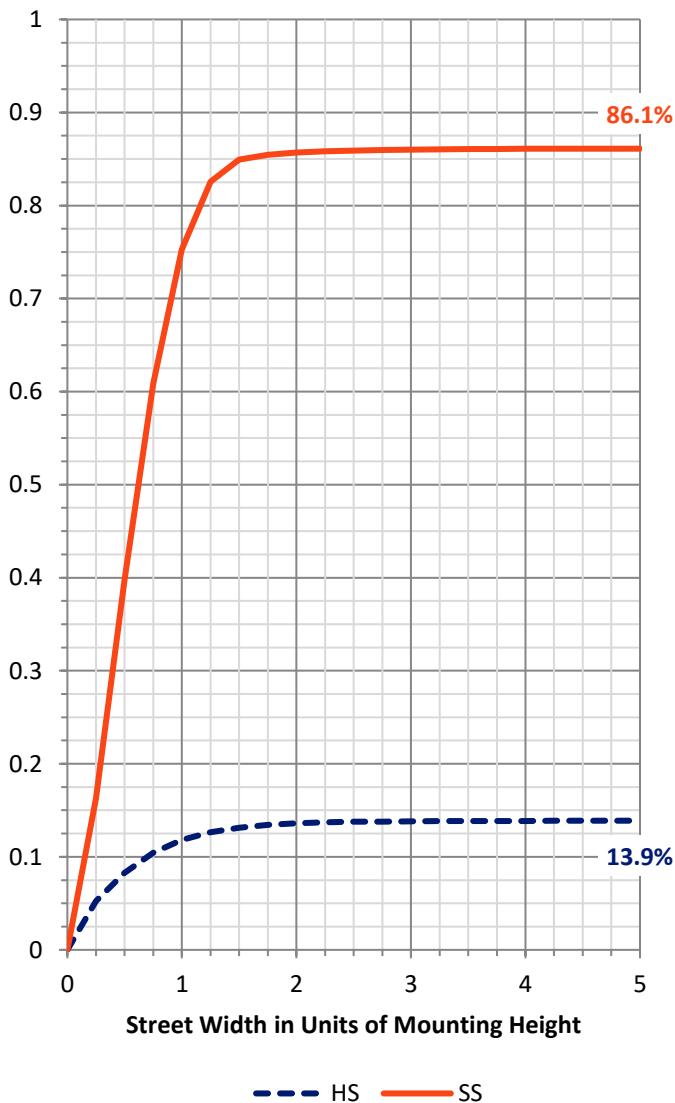
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5254.7	0.0	5254.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	32371.3	0.0	32371.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	37626.0	0.0	37626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.8	1.3
10°-20°	2192.2	5.8
20°-30°	4598.9	12.2
30°-40°	7926.9	21.1
40°-50°	11585.1	30.8
50°-60°	9022.9	24.0
60°-70°	1528.8	4.1
70°-80°	210.0	0.6
80°-90°	54.4	0.1
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°	37626.0	100.0
0°-180°	37626.0	100.0

Coefficient of Utilization

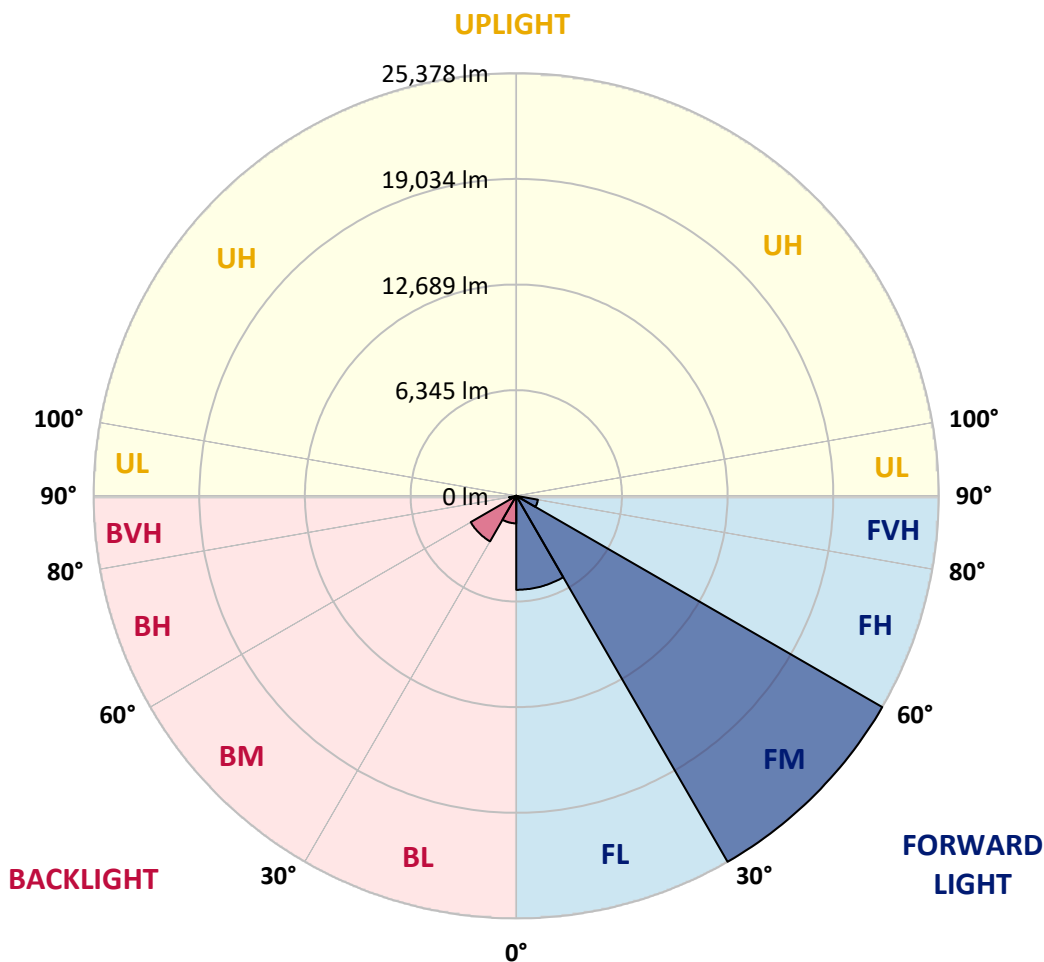


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5644.3	15.0			
FM (30°-60°)	25378.1	67.4			
FH (60°-80°)	1323.7	3.5			G1/1800
FVH (80°-90°)	25.2	0.1			G1/100
BL (0°-30°)	1653.5	4.4	B3/2500		
BM (30°-60°)	3156.9	8.4	B3/5000		
BH (60°-80°)	415.1	1.1	B1/500		G1/500
BVH (80°-90°)	29.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3
2.5°	5103.6	5066.5	4986.1	4837.6	4775.8	4627.3	4540.7	4373.7	4268.5	4150.9	4021.0
5°	7188.4	6996.6	6879.1	6712.0	6223.3	5920.2	5419.1	4992.3	4794.3	4577.8	4280.9
7.5°	9341.2	9217.5	9056.6	8697.8	8363.8	7732.8	6872.9	5932.6	5530.5	5159.3	4571.6
10°	11122.8	10776.4	10757.8	10491.8	10126.8	9372.1	8339.0	7169.8	6452.2	5907.8	4986.1
12.5°	12366.2	12050.7	12193.0	12162.1	11821.8	11129.0	9935.1	8388.5	7640.0	6792.5	5412.9
15°	13498.3	13368.4	13325.1	13288.0	13151.9	12638.4	11568.2	9873.2	8790.6	7769.9	5895.5
17.5°	14605.6	14271.6	14432.4	14463.4	14451.0	13987.0	12984.9	11283.6	10009.3	8803.0	6402.7
20°	15589.3	15620.2	15403.7	15360.4	15323.2	15304.7	14327.3	12681.7	11506.4	9885.6	7064.7
22.5°	16851.2	16634.7	16826.5	16702.8	16461.5	16313.0	15564.5	13919.0	12805.5	11190.9	7738.9
25°	18342.1	18515.3	18063.7	18014.2	17748.2	17234.8	16560.5	15304.7	14055.1	12403.4	8468.9
27.5°	20179.4	19876.3	19758.8	19486.6	19004.0	18787.5	17995.7	16733.7	15564.5	13677.7	9174.2
30°	21756.9	21676.5	21088.8	20767.1	20346.4	20340.3	19232.9	18670.0	17531.7	15675.9	10145.4
32.5°	23043.6	22691.0	22474.5	22251.8	21911.6	22004.4	21070.2	20773.3	19628.8	17531.7	11289.8
35°	23903.5	23649.9	23520.0	23179.7	23080.8	23495.2	23105.5	22981.8	22041.5	20142.3	12632.2
37.5°	24175.7	24256.1	24231.4	23804.5	24014.9	25134.6	25635.7	25314.0	24819.1	22895.2	14086.0
40°	24417.0	24472.6	24348.9	24850.0	25450.1	26724.4	28537.0	28005.0	27819.4	25685.1	16108.9
42.5°	24553.1	24509.8	24509.8	25375.8	26285.2	28846.3	31339.3	30986.7	30844.4	28654.5	18447.3
45°	23965.4	23544.7	23996.3	25171.7	27002.8	29891.8	33578.8	34067.5	33863.3	32186.9	21181.6
47.5°	21769.3	22029.1	22282.7	23854.0	26130.6	29570.1	34952.1	36616.2	36993.5	35156.2	22975.6
50°	18447.3	18391.6	18917.4	20897.0	23662.3	28184.4	34686.1	37352.3	38039.0	36047.0	23352.9
52.5°	13417.9	13826.2	14395.3	16362.5	19641.2	24596.4	31252.7	35453.2	36368.7	34952.1	23105.5
55°	7813.2	7361.6	8642.1	10306.2	13399.3	18552.4	26421.3	31425.9	33121.0	32960.1	21855.9
57.5°	3130.2	3031.2	3470.5	4676.8	6990.4	11500.2	19214.4	25821.2	28537.0	30188.7	19208.2
60°	1373.3	1342.4	1577.5	1905.4	2858.0	5301.6	10510.4	16059.4	18892.7	21095.0	13219.9
62.5°	989.8	977.4	1095.0	1212.5	1509.4	2307.5	4417.0	6470.8	8066.8	9743.3	5920.2
65°	798.0	829.0	909.4	971.2	1113.5	1280.5	1558.9	1800.2	2208.5	2288.9	1305.3
67.5°	649.6	674.3	748.5	816.6	841.3	692.9	717.6	631.0	631.0	562.9	451.6
70°	476.3	482.5	569.1	649.6	519.6	278.4	488.7	488.7	439.2	420.7	383.5
72.5°	352.6	358.8	426.8	402.1	204.1	173.2	358.8	395.9	358.8	340.2	309.3
75°	259.8	266.0	222.7	92.8	86.6	111.4	210.3	272.2	259.8	253.6	235.1
77.5°	49.5	37.1	30.9	43.3	61.9	92.8	136.1	167.0	173.2	185.6	173.2
80°	6.2	6.2	18.6	37.1	68.0	99.0	142.3	160.8	167.0	173.2	160.8
82.5°	0.0	6.2	18.6	37.1	68.0	92.8	123.7	142.3	154.7	160.8	154.7
85°	0.0	6.2	12.4	30.9	55.7	68.0	61.9	43.3	37.1	43.3	30.9
87.5°	0.0	0.0	6.2	6.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4
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°	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3	3897.3
2.5°	3946.8	3922.1	3835.5	3742.7	3662.2	3699.4	3662.2	3631.3	3643.7	3631.3	3618.9
5°	4163.3	4052.0	3866.4	3786.0	3717.9	3711.7	3693.2	3687.0	3693.2	3693.2	3637.5
7.5°	4367.5	4188.1	3990.1	3903.5	3823.1	3829.3	3786.0	3786.0	3779.8	3748.8	3736.5
10°	4676.8	4435.5	4181.9	4027.2	3928.2	3909.7	3866.4	3823.1	3823.1	3823.1	3761.2
12.5°	5017.0	4713.9	4367.5	4188.1	4070.5	3977.7	3909.7	3897.3	3829.3	3816.9	3786.0
15°	5314.0	4930.4	4491.2	4243.7	4095.3	3971.5	3866.4	3798.3	3767.4	3748.8	3724.1
17.5°	5604.7	5116.0	4559.2	4243.7	4082.9	3940.6	3829.3	3767.4	3693.2	3705.5	3656.1
20°	5994.4	5314.0	4577.8	4163.3	3965.4	3829.3	3680.8	3649.9	3606.6	3569.4	3581.8
22.5°	6371.8	5456.2	4522.1	4064.3	3779.8	3618.9	3544.7	3507.6	3489.0	3458.1	3414.8
25°	6712.0	5610.9	4435.5	3884.9	3581.8	3464.3	3396.2	3390.0	3346.7	3346.7	3266.3
27.5°	7058.5	5666.6	4287.0	3674.6	3408.6	3340.6	3309.6	3297.3	3278.7	3235.4	3179.7
30°	7454.4	5685.1	4070.5	3458.1	3253.9	3179.7	3223.0	3253.9	3173.5	3093.1	3117.9
32.5°	7782.3	5641.8	3810.7	3253.9	3142.6	3105.5	3192.1	3223.0	3130.2	3043.6	3000.3
35°	8178.2	5536.7	3557.1	3093.1	3031.2	3105.5	3179.7	3179.7	2994.1	2889.0	2864.2
37.5°	8778.2	5419.1	3322.0	2957.0	2913.7	3068.4	3167.3	3099.3	2808.5	2678.6	2647.7
40°	9421.6	5344.9	3093.1	2820.9	2851.8	3006.5	3062.2	2851.8	2554.9	2474.5	2449.7
42.5°	10355.7	5196.4	2889.0	2703.4	2796.2	2919.9	2919.9	2542.5	2431.2	2387.9	2381.7
45°	11518.7	5091.3	2709.6	2604.4	2715.7	2746.7	2647.7	2381.7	2301.3	2288.9	2295.1
47.5°	12087.9	4887.1	2524.0	2486.9	2567.3	2573.5	2313.6	2251.8	2183.7	2165.2	2152.8
50°	12001.2	4522.1	2282.7	2332.2	2443.6	2381.7	2109.5	2121.9	2060.0	2053.8	2022.9
52.5°	11395.0	3946.8	2041.4	2159.0	2282.7	2103.3	1942.5	1930.1	1930.1	1849.7	1818.7
55°	10102.1	3179.7	1750.7	1899.2	2047.6	1769.3	1726.0	1713.6	1682.6	1608.4	1589.9
57.5°	7998.8	2332.2	1317.7	1478.5	1738.3	1503.2	1497.1	1441.4	1361.0	1305.3	1305.3
60°	4757.2	1342.4	829.0	903.2	1150.6	1218.7	1354.8	1330.0	1193.9	1107.3	1082.6
62.5°	2171.4	692.9	525.8	538.2	618.6	791.8	1064.0	1231.1	1039.3	890.8	878.4
65°	730.0	513.5	433.0	414.5	426.8	476.3	637.2	872.3	829.0	686.7	661.9
67.5°	445.4	457.8	408.3	377.4	377.4	371.2	365.0	395.9	488.7	476.3	482.5
70°	383.5	420.7	377.4	340.2	327.9	309.3	259.8	216.5	185.6	216.5	228.9
72.5°	309.3	334.1	321.7	290.8	259.8	235.1	185.6	142.3	105.2	92.8	92.8
75°	228.9	247.4	259.8	222.7	198.0	167.0	136.1	92.8	55.7	37.1	37.1
77.5°	167.0	185.6	191.8	173.2	148.5	117.5	86.6	61.9	30.9	12.4	12.4
80°	142.3	167.0	185.6	173.2	154.7	111.4	80.4	43.3	24.7	6.2	6.2
82.5°	136.1	167.0	185.6	167.0	148.5	105.2	80.4	49.5	18.6	6.2	6.2
85°	30.9	43.3	55.7	68.0	80.4	80.4	61.9	37.1	18.6	6.2	6.2
87.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	6.2	6.2	0.0
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)