

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: P527738

Luminaire Tested: **GALN-SA2D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12283 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

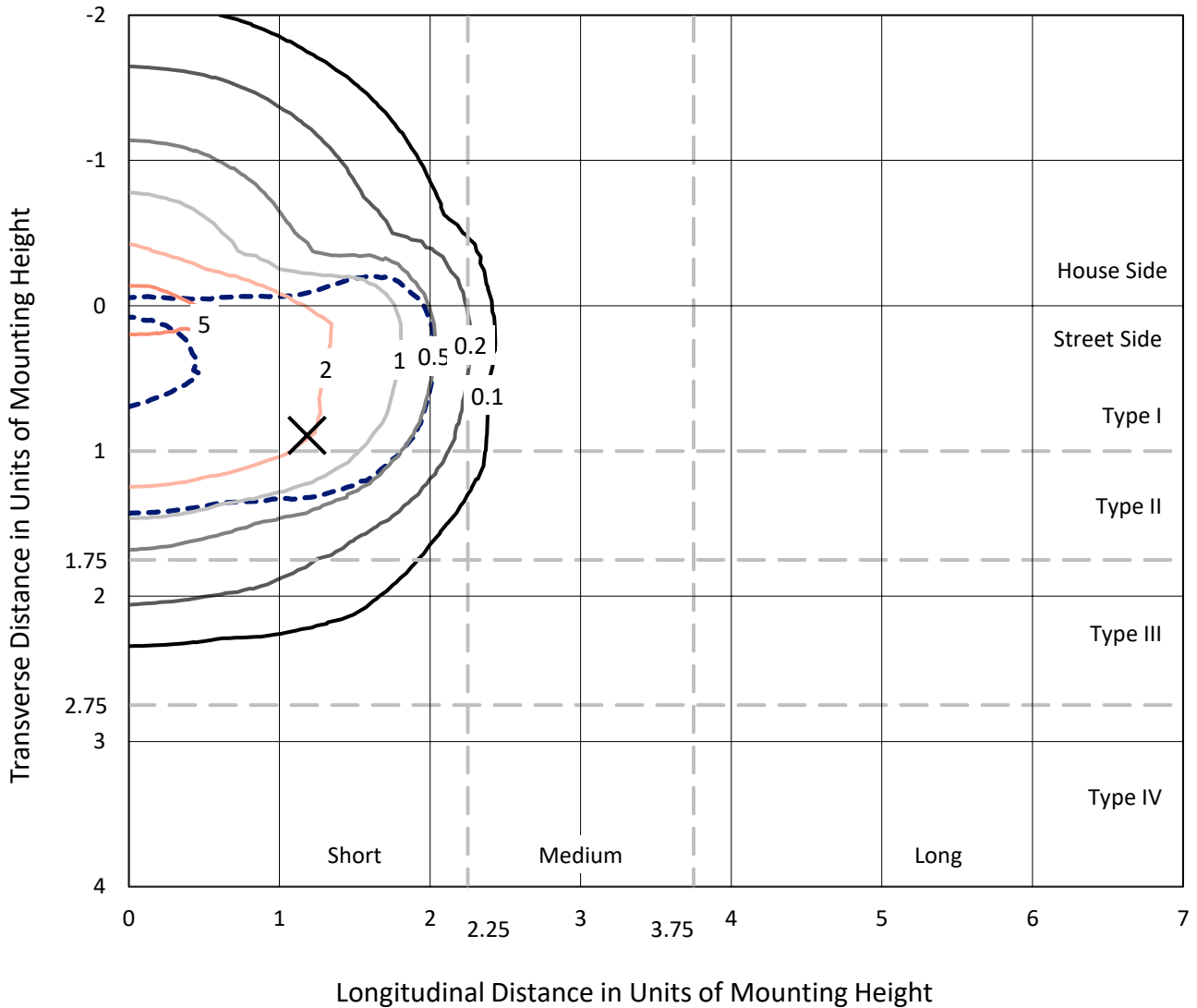
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

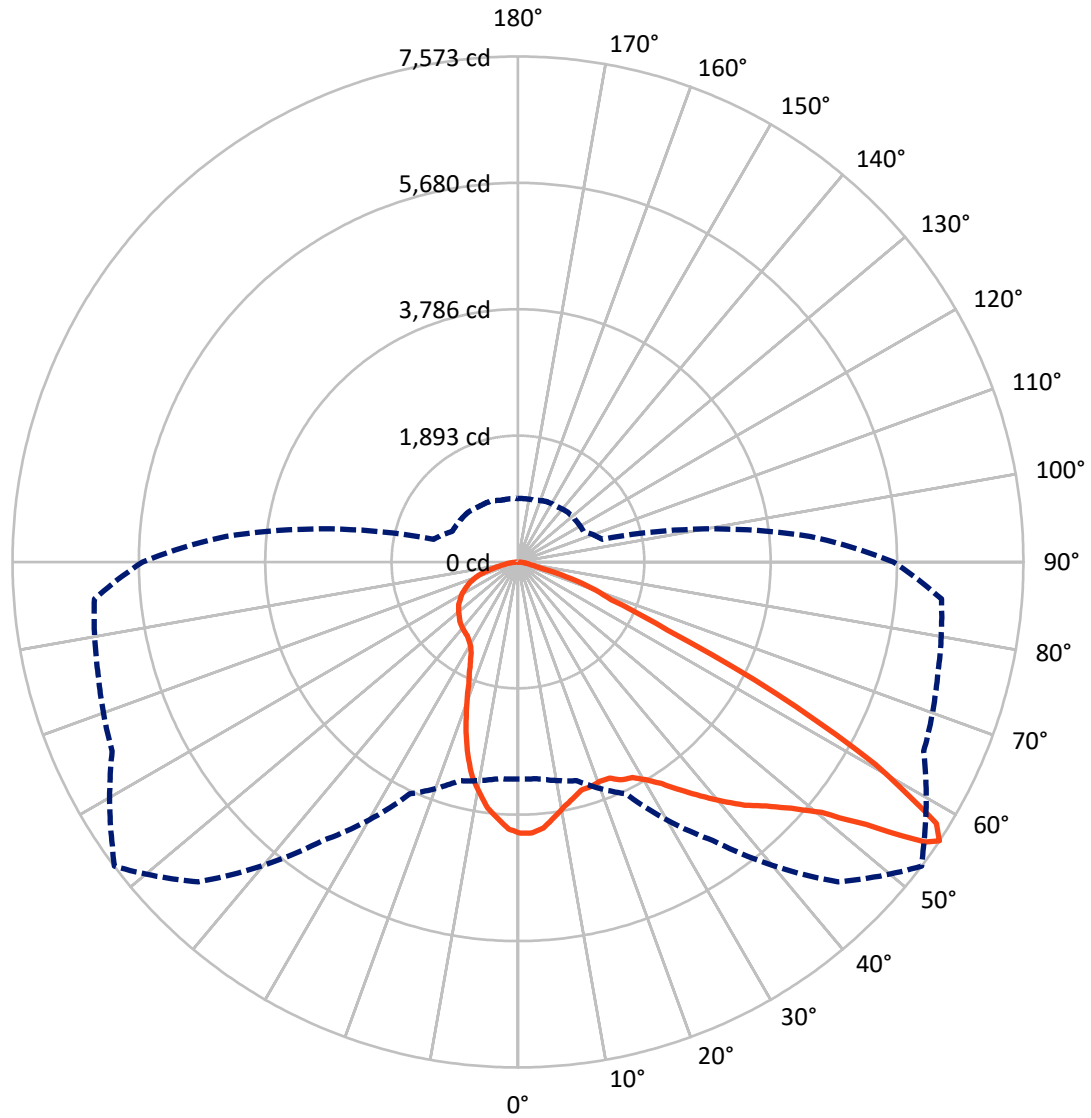
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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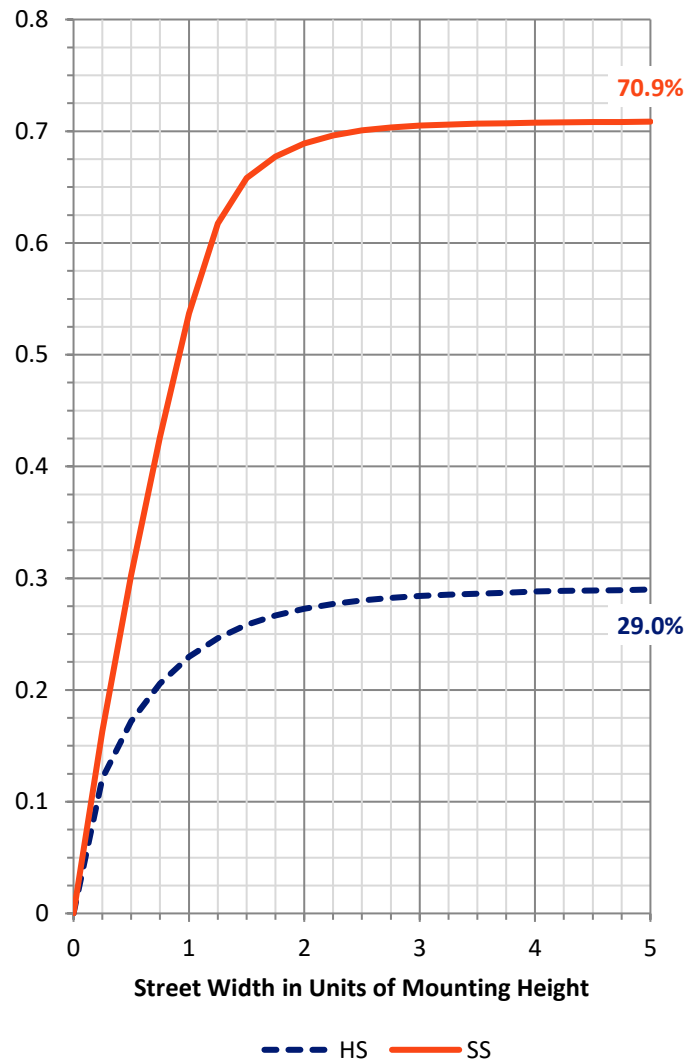
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3584.5	0.0	3584.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	8698.6	0.0	8698.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	12283.0	0.0	12283.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	2.9
10°-20°	898.5	7.3
20°-30°	1324.9	10.8
30°-40°	1893.1	15.4
40°-50°	2605.5	21.2
50°-60°	3079.1	25.1
60°-70°	1640.9	13.4
70°-80°	416.3	3.4
80°-90°	64.9	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°	12283.0	100.0
0°-180°	12283.0	100.0



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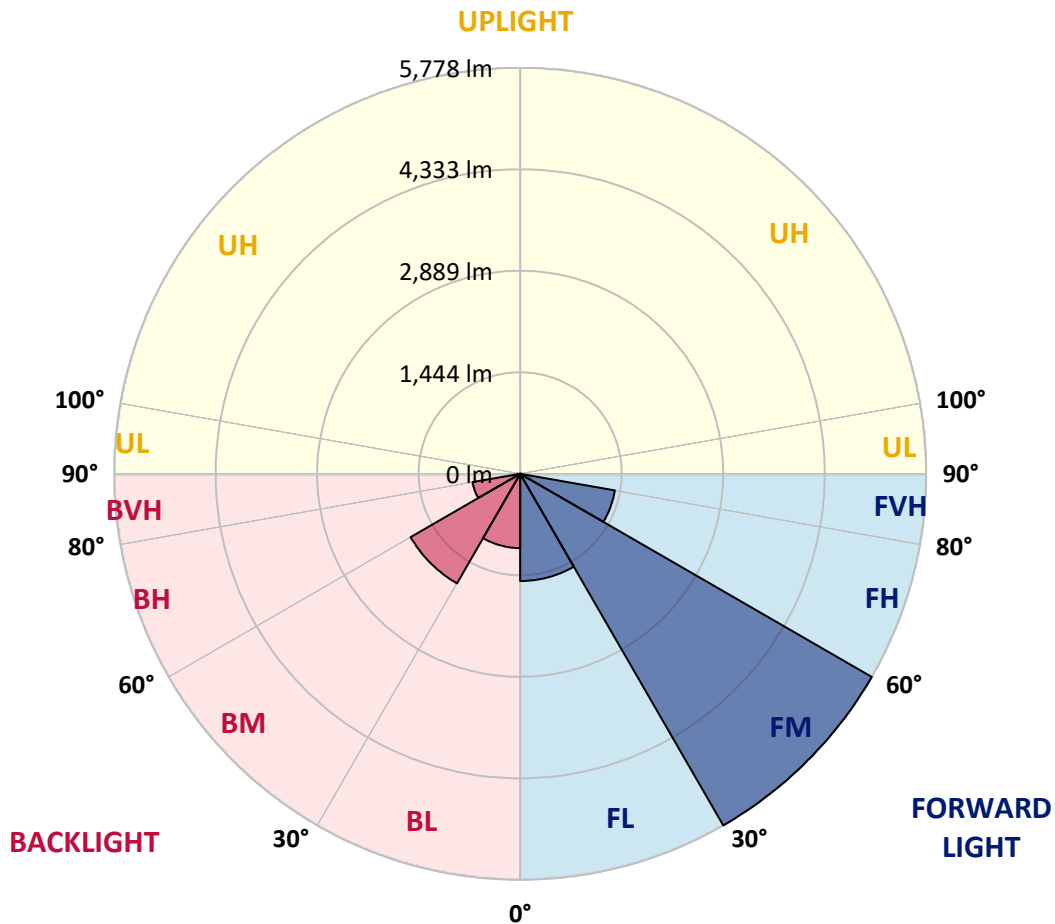
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.0	12.4			
FM (30°-60°)	5777.7	47.0			
FH (60°-80°)	1368.8	11.1			G1/1800
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	1057.2	8.6	B3/2500		
BM (30°-60°)	1800.0	14.7	B2/2500		
BH (60°-80°)	688.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	38.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4013.3	3978.6	3999.1	3991.2	4055.8	4074.7	4065.3	4073.2	4109.4	4092.1	4055.8
5°	3750.1	3799.0	3808.4	3832.1	3869.9	3943.9	4002.2	4018.0	4035.3	4115.7	4107.8
7.5°	3510.6	3543.7	3526.4	3595.7	3677.7	3797.4	3868.3	3880.9	4040.1	4084.2	4117.3
10°	3359.4	3326.3	3405.1	3424.0	3516.9	3654.0	3739.1	3791.1	3936.1	4111.0	4131.5
12.5°	3219.1	3208.1	3255.4	3308.9	3412.9	3554.8	3641.4	3661.9	3885.6	4070.0	4166.1
15°	3115.1	3102.5	3149.8	3189.2	3310.5	3436.6	3546.9	3605.2	3830.5	4046.4	4136.2
17.5°	3033.2	3031.6	3058.4	3129.3	3253.8	3359.4	3537.4	3540.6	3802.1	4082.6	4161.4
20°	3028.5	3026.9	3031.6	3110.4	3223.9	3353.1	3507.5	3535.8	3802.1	4057.4	4163.0
22.5°	3067.9	3042.7	3071.0	3121.4	3203.4	3364.1	3518.5	3581.5	3893.5	4181.9	4233.9
25°	3130.9	3137.2	3153.0	3170.3	3217.6	3389.3	3616.2	3668.2	4000.7	4289.0	4331.6
27.5°	3245.9	3242.8	3249.1	3258.5	3299.5	3412.9	3655.6	3789.5	4224.4	4479.7	4437.1
30°	3414.5	3403.5	3428.7	3461.8	3424.0	3488.6	3786.4	3887.2	4432.4	4671.9	4555.3
32.5°	3567.4	3608.3	3655.6	3669.8	3624.1	3636.7	3959.7	4062.1	4605.7	4908.3	4700.3
35°	3758.0	3791.1	3854.1	3898.3	3890.4	3852.6	4196.1	4331.6	4856.3	5081.6	4853.1
37.5°	3943.9	3983.3	4087.3	4218.1	4145.6	4128.3	4448.2	4560.0	4933.5	5174.6	4965.0
40°	4243.3	4241.8	4421.4	4489.1	4553.7	4523.8	4709.7	4747.5	4974.4	5154.1	4968.1
42.5°	4594.7	4572.6	4755.4	4861.0	4944.5	4947.7	4982.3	4969.7	4993.4	5050.1	4935.1
45°	4928.8	4976.0	5160.4	5349.5	5433.0	5442.4	5212.4	5188.7	5026.4	5020.1	4872.0
47.5°	5336.9	5347.9	5499.2	5748.1	5941.9	5875.7	5510.2	5458.2	5171.4	5220.3	4977.6
50°	5360.5	5442.4	5577.9	5871.0	6466.6	6449.3	5896.2	5798.5	5404.6	5503.9	5272.3
52.5°	4865.7	4846.8	5007.5	5486.5	6427.2	7019.7	6536.0	6302.8	5905.7	5830.0	5749.7
55°	3707.6	3751.7	3893.5	4377.3	5581.1	7027.6	7407.3	7216.7	6441.4	6312.2	6219.2
56°	3252.2	3258.5	3392.5	3833.6	5092.6	6777.0	7572.8	7418.3	6707.7	6510.7	6368.9
57.5°	2696.0	2659.8	2729.1	2970.2	4298.5	6247.6	7391.6	7542.8	7019.7	6725.0	6528.1
60°	2122.5	2114.6	2086.2	2130.3	2716.5	4706.6	6153.1	6493.4	6988.2	6523.4	6252.3
62.5°	1733.3	1693.9	1750.6	1813.6	1887.7	2919.8	4323.7	4523.8	5548.0	5207.7	4697.1
65°	1344.1	1325.2	1396.1	1600.9	1645.0	1854.6	2462.8	2617.2	3275.9	3217.6	2833.1
67.5°	924.9	928.1	989.5	1301.5	1525.3	1506.4	1507.9	1588.3	1709.6	1270.0	1106.1
70°	586.2	584.6	617.7	838.3	1227.5	1240.1	1177.0	1153.4	1093.5	661.8	701.2
72.5°	376.6	365.6	382.9	463.3	635.0	734.3	756.3	770.5	633.4	520.0	564.1
75°	212.7	201.7	195.4	215.9	250.5	289.9	318.3	327.7	367.1	393.9	417.6
77.5°	64.6	58.3	70.9	94.5	124.5	167.0	203.3	209.6	247.4	278.9	302.5
80°	28.4	31.5	44.1	63.0	88.2	118.2	143.4	152.8	178.1	201.7	208.0
82.5°	17.3	18.9	29.9	42.5	61.5	83.5	102.4	105.6	130.8	149.7	154.4
85°	6.3	7.9	15.8	25.2	39.4	53.6	53.6	58.3	53.6	53.6	58.3
87.5°	0.0	0.0	1.6	3.2	3.2	4.7	6.3	6.3	7.9	9.5	11.0
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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4074.7	4066.9	4054.2	4008.6	4003.8	3989.6	3910.9	3898.3	3910.9	3873.0	3876.2
5°	4066.9	4090.5	3995.9	3950.3	3865.2	3803.7	3732.8	3696.6	3632.0	3591.0	3636.7
7.5°	4101.5	4092.1	3973.9	3874.6	3747.0	3591.0	3466.5	3395.6	3282.2	3250.6	3274.3
10°	4088.9	4038.5	3899.8	3769.0	3528.0	3390.9	3189.2	2993.8	2886.7	2831.5	2823.6
12.5°	4071.6	4057.4	3825.8	3600.4	3346.8	3058.4	2774.8	2590.4	2415.5	2339.9	2350.9
15°	4092.1	3972.3	3687.1	3401.9	3064.7	2686.5	2380.9	2142.9	2021.6	1972.8	1972.8
17.5°	4082.6	3931.3	3620.9	3179.7	2752.7	2305.2	1969.6	1826.2	1775.8	1775.8	1790.0
20°	4087.3	3958.1	3487.0	2957.6	2384.0	1941.2	1697.0	1645.0	1667.1	1675.0	1682.8
22.5°	4114.1	3869.9	3356.2	2713.3	2042.1	1660.8	1541.0	1542.6	1582.0	1624.5	1616.7
25°	4147.2	3835.2	3197.1	2470.7	1780.5	1523.7	1485.9	1481.1	1511.1	1533.1	1536.3
27.5°	4118.8	3775.3	3034.8	2168.1	1566.2	1432.3	1424.4	1427.6	1437.0	1481.1	1467.0
30°	4211.8	3792.7	2831.5	1914.5	1448.1	1402.4	1392.9	1388.2	1402.4	1415.0	1403.9
32.5°	4326.8	3731.2	2680.2	1670.2	1389.8	1380.3	1361.4	1355.1	1363.0	1350.4	1356.7
35°	4377.3	3720.2	2483.3	1495.3	1344.1	1336.2	1325.2	1323.6	1325.2	1314.1	1304.7
37.5°	4405.6	3772.2	2258.0	1415.0	1315.7	1323.6	1298.4	1295.2	1266.9	1273.2	1277.9
40°	4454.5	3691.8	2075.2	1337.8	1298.4	1282.6	1260.6	1255.8	1236.9	1225.9	1236.9
42.5°	4383.6	3668.2	1895.6	1304.7	1273.2	1255.8	1240.1	1213.3	1207.0	1197.5	1191.2
45°	4326.8	3532.7	1734.8	1263.7	1243.2	1233.8	1203.8	1175.5	1151.8	1161.3	1147.1
47.5°	4369.4	3485.4	1575.7	1229.0	1202.3	1191.2	1161.3	1139.2	1115.6	1104.6	1101.4
50°	4539.6	3573.7	1441.8	1203.8	1167.6	1161.3	1121.9	1096.7	1074.6	1066.7	1069.9
52.5°	4946.1	3814.7	1350.4	1151.8	1134.5	1106.1	1084.1	1052.6	1038.4	1013.2	1028.9
55°	5461.3	4207.1	1326.7	1103.0	1093.5	1068.3	1038.4	1014.7	988.0	967.5	962.7
56°	5626.8	4394.6	1307.8	1084.1	1068.3	1054.1	1014.7	1000.6	958.0	953.3	950.1
57.5°	5760.7	4560.0	1311.0	1047.8	1032.1	1019.5	995.8	961.2	932.8	915.5	923.4
60°	5458.2	4268.5	1251.1	992.7	989.5	965.9	932.8	917.1	882.4	861.9	857.2
62.5°	4057.4	2897.7	1014.7	921.8	920.2	895.0	857.2	839.8	833.5	805.2	805.2
65°	2336.7	1816.8	877.7	863.5	850.9	825.7	787.8	773.7	757.9	748.5	740.6
67.5°	997.4	942.3	797.3	795.7	781.5	750.0	712.2	690.2	669.7	650.8	660.2
70°	723.2	734.3	720.1	712.2	694.9	655.5	622.4	595.6	564.1	551.5	560.9
72.5°	573.6	597.2	617.7	619.2	598.8	553.1	516.8	480.6	445.9	428.6	436.5
75°	434.9	450.6	471.1	475.9	445.9	414.4	379.7	341.9	315.1	294.7	297.8
77.5°	313.6	310.4	329.3	326.2	312.0	289.9	258.4	223.7	193.8	174.9	176.5
80°	214.3	219.0	230.1	228.5	211.1	197.0	173.3	145.0	122.9	107.1	104.0
82.5°	149.7	157.6	167.0	159.1	145.0	130.8	113.4	93.0	75.6	63.0	59.9
85°	53.6	61.5	70.9	75.6	80.4	77.2	64.6	52.0	37.8	31.5	29.9
87.5°	11.0	12.6	14.2	14.2	14.2	12.6	11.0	11.0	9.5	4.7	4.7
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)