

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: P529620

Luminaire Tested: **GALN-SA4D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25051 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

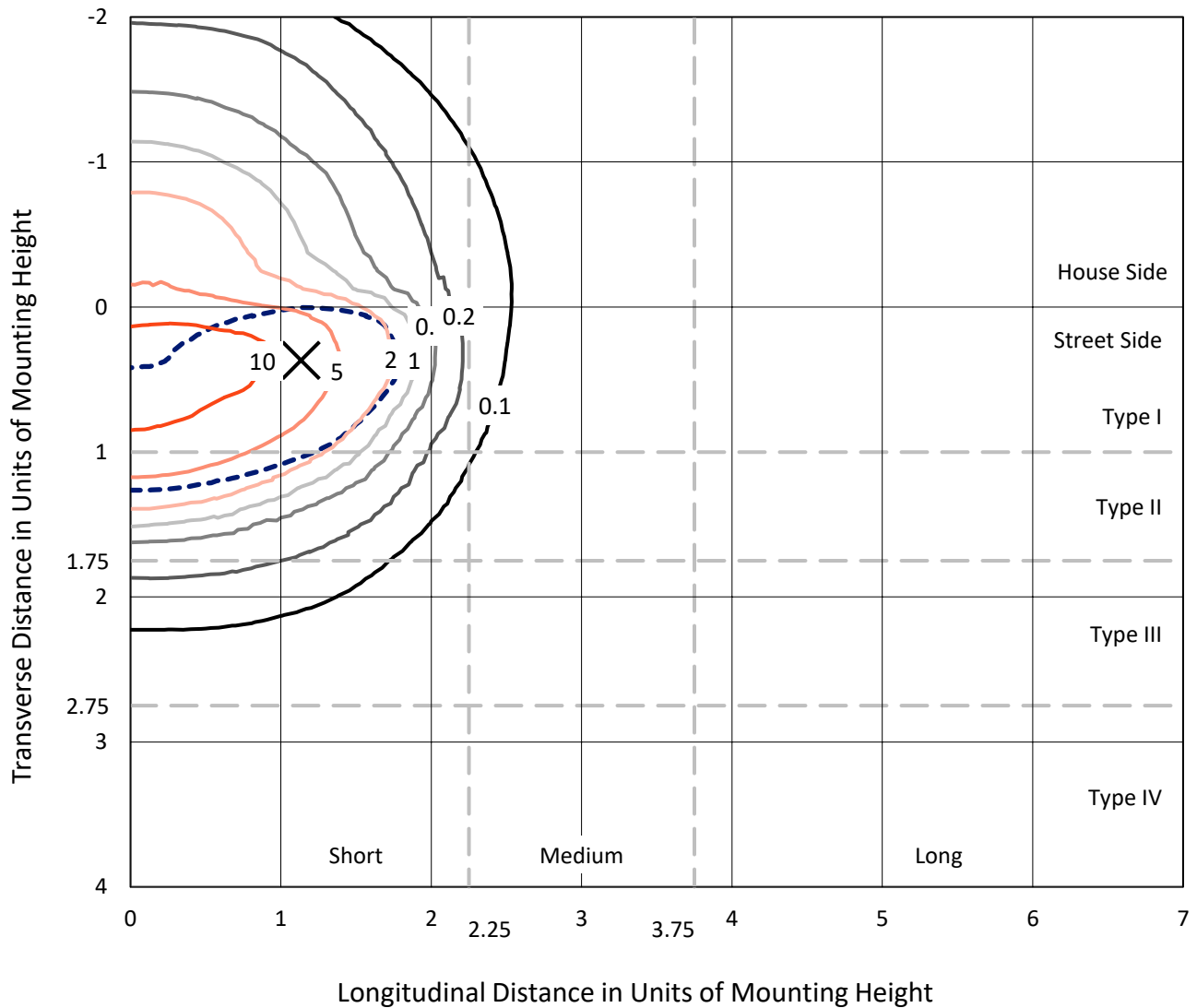
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

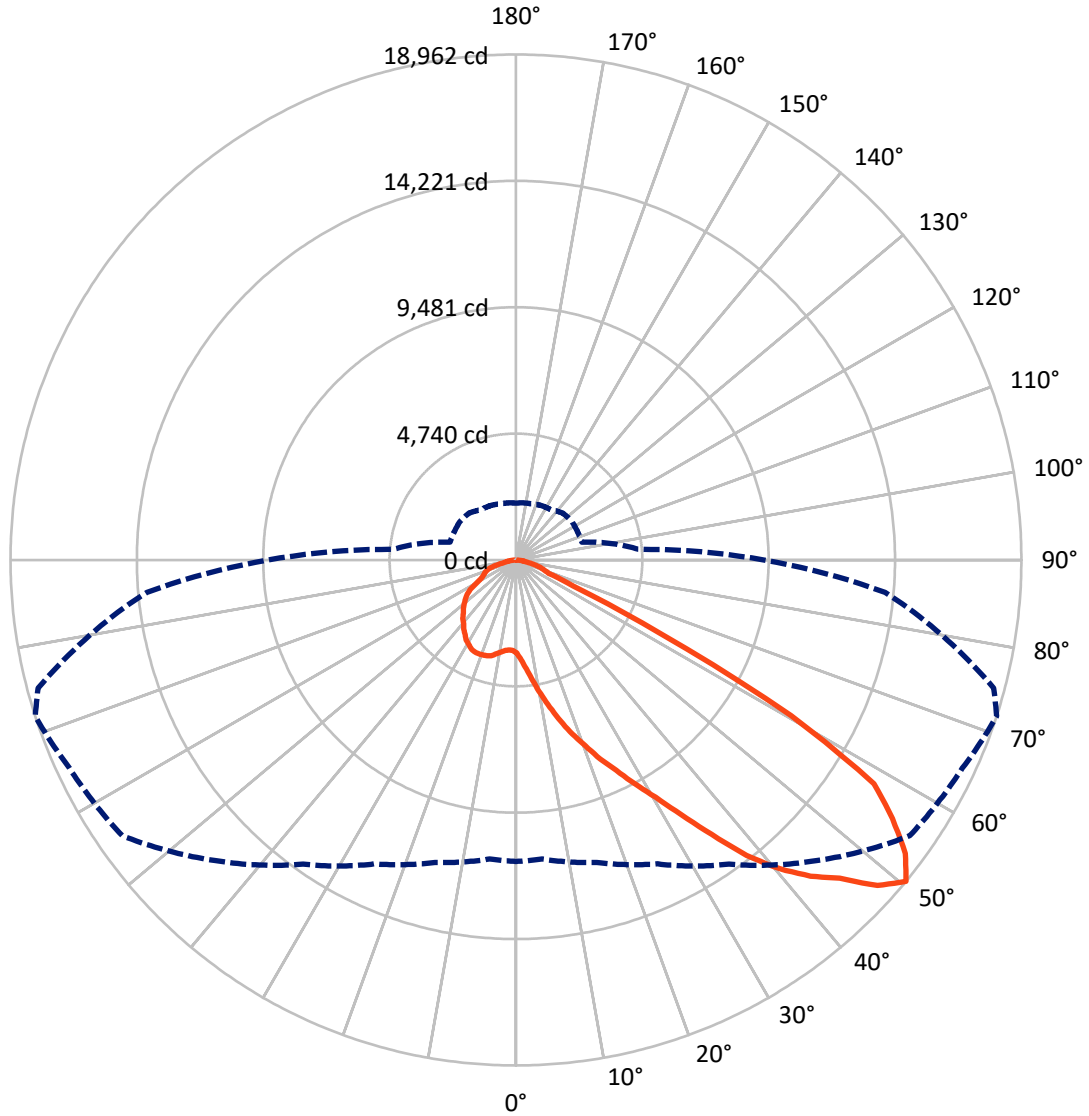
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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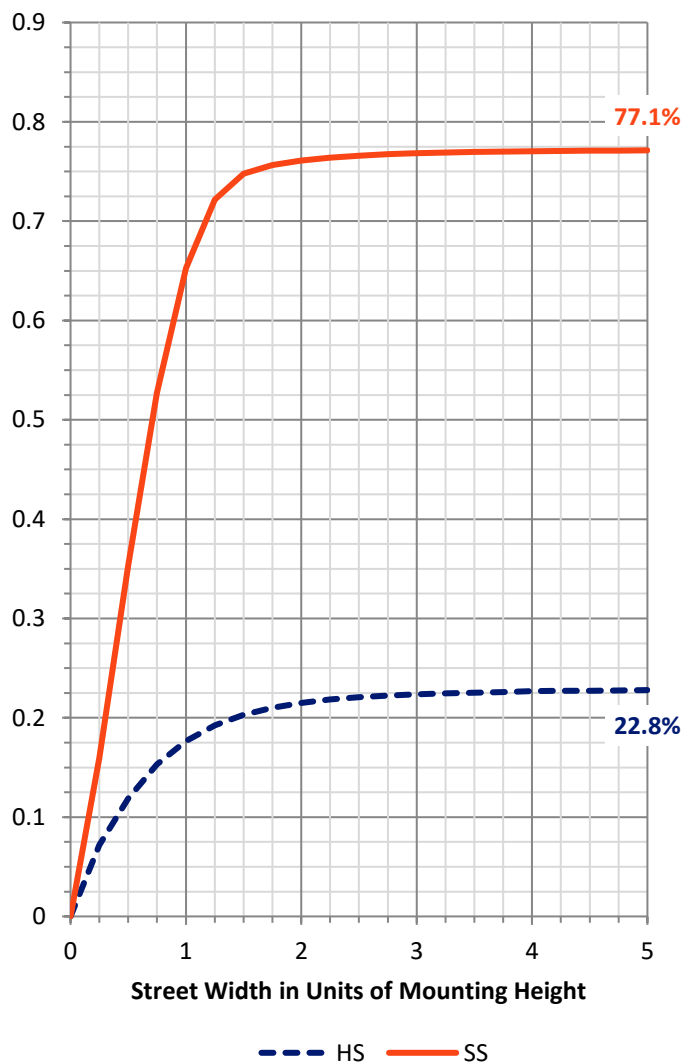
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5739.3	0.0	5739.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19311.7	0.0	19311.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	25051.0	0.0	25051.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.2	1.6
10°-20°	1533.5	6.1
20°-30°	2973.3	11.9
30°-40°	4925.7	19.7
40°-50°	6892.1	27.5
50°-60°	5814.3	23.2
60°-70°	1772.2	7.1
70°-80°	621.8	2.5
80°-90°	108.1	0.4
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°	25051.0	100.0
0°-180°	25051.0	100.0

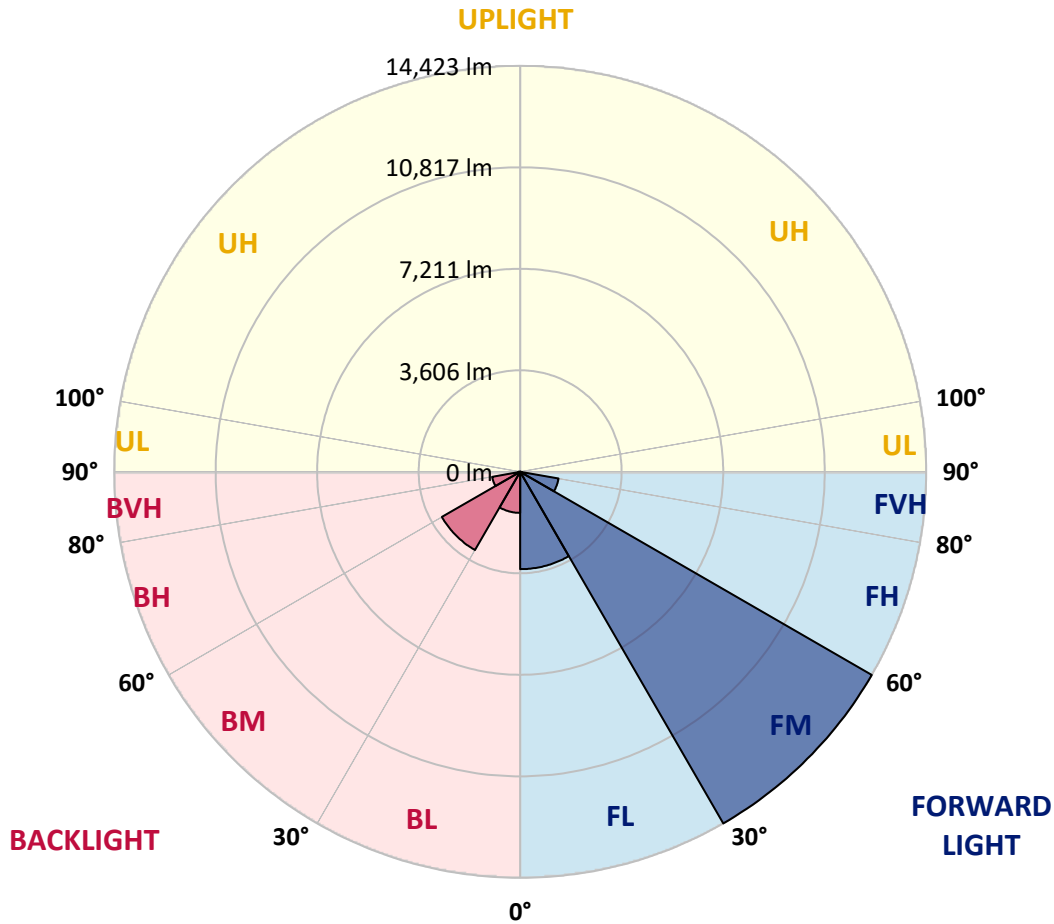


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3457.9	13.8			
FM (30°-60°)	14422.5	57.6			
FH (60°-80°)	1382.8	5.5			G1/1800
FVH (80°-90°)	48.4	0.2			G1/100
BL (0°-30°)	1459.0	5.8	B3/2500		
BM (30°-60°)	3209.5	12.8	B3/5000		
BH (60°-80°)	1011.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	59.7	0.2			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°	72°	75°	85°
0°	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3
2.5°	4485.5	4457.6	4373.9	4346.0	4246.8	4067.0	4005.0	3822.1	3744.6	3673.3	3589.6
5°	5672.7	5542.5	5533.2	5375.1	5145.7	5012.4	4615.7	4349.1	4104.2	3980.2	3750.8
7.5°	6429.1	6432.2	6432.2	6302.0	6119.1	5781.2	5424.7	4944.2	4575.4	4392.5	4001.9
10°	7148.2	7086.2	7052.1	7039.7	6915.7	6587.1	6205.9	5610.7	5105.4	4891.5	4191.0
12.5°	7656.6	7603.9	7681.4	7641.1	7551.2	7337.3	6977.7	6298.9	5666.5	5378.2	4494.8
15°	7898.4	7935.6	7997.6	8109.2	8068.9	7988.3	7591.5	7005.6	6271.0	5945.5	4764.4
17.5°	8270.4	8168.1	8242.5	8382.0	8493.5	8456.3	8230.1	7517.1	6869.2	6469.4	5127.1
20°	8530.7	8471.8	8509.0	8670.2	8753.9	8964.7	8846.9	8186.7	7442.7	7021.1	5554.9
22.5°	9274.7	9187.9	9067.0	9091.8	9122.8	9271.6	9299.5	8921.3	8109.2	7662.8	5961.0
25°	10192.3	10111.7	9969.1	9823.4	9733.5	9705.6	9801.7	9497.9	8747.7	8285.9	6398.1
27.5°	11202.8	11066.4	10976.5	10675.8	10434.0	10396.8	10350.3	10186.1	9504.1	9005.0	6890.9
30°	12185.4	12077.0	11956.1	11475.6	11224.5	11184.2	10954.8	11001.3	10325.5	9770.7	7448.9
32.5°	12929.4	12938.7	12662.8	12300.1	12064.6	11850.7	11767.0	11900.3	11379.5	10933.1	8072.0
35°	13530.8	13558.7	13295.2	12966.6	12712.4	12861.2	12824.0	12886.0	12638.0	12092.5	8797.3
37.5°	14116.6	13977.1	13695.1	13537.0	13403.7	13648.6	13964.8	14017.4	14063.9	13422.3	9640.5
40°	14212.7	14225.1	14060.8	14172.4	14005.0	14373.9	15108.6	15040.4	15229.5	14668.4	10554.9
42.5°	14076.3	14104.2	14169.3	14327.4	14730.4	15173.7	16264.8	15985.8	16215.2	15716.2	11444.6
45°	13853.2	13738.5	13819.1	14420.4	15117.9	16103.6	17321.9	17104.9	17030.5	16612.0	12504.7
47.5°	12786.8	12904.6	13155.7	13896.6	14944.3	16264.8	18072.0	18022.4	18245.6	17951.1	13468.8
50°	11308.2	11261.7	11745.3	12579.1	13930.7	15948.6	18031.7	18481.2	18961.7	18552.5	13899.7
52.5°	8468.7	8716.7	9132.1	10167.5	12095.6	14225.1	17151.4	17901.5	18292.1	18205.3	13552.5
55°	5353.4	5427.8	5678.9	6909.5	8645.4	11416.7	14702.5	16441.5	17139.0	17464.5	13233.2
57.5°	2600.8	2461.3	2768.2	3757.0	4993.8	7678.3	11339.2	14321.2	15837.0	16426.0	12538.8
60°	1357.7	1410.4	1531.3	1884.7	2582.2	3986.4	7067.6	9544.4	11860.0	12765.1	9504.1
62.5°	1125.2	1143.8	1224.4	1401.1	1717.3	2293.9	3608.2	4652.9	6047.8	6863.0	5406.1
65°	954.7	964.0	1050.8	1168.6	1370.1	1615.0	1856.8	1943.6	2352.8	2414.8	1921.9
67.5°	796.7	806.0	899.0	1010.5	1140.7	1205.8	1267.8	1261.6	1308.1	1289.5	1286.4
70°	613.8	623.1	719.2	837.0	902.1	864.9	1057.0	1100.4	1119.0	1134.5	1159.3
72.5°	443.3	461.9	536.3	620.0	585.9	672.7	871.1	936.1	960.9	970.2	1001.2
75°	322.4	328.6	347.2	322.4	372.0	468.1	613.8	694.4	725.4	734.7	781.2
77.5°	142.6	145.7	148.8	186.0	238.7	291.4	365.8	430.9	474.3	486.7	499.1
80°	74.4	77.5	96.1	127.1	170.5	213.9	266.6	303.8	331.7	334.8	347.2
82.5°	46.5	49.6	68.2	89.9	120.9	158.1	195.3	226.3	248.0	251.1	254.2
85°	21.7	27.9	40.3	55.8	80.6	102.3	105.4	89.9	96.1	99.2	93.0
87.5°	6.2	9.3	12.4	9.3	12.4	12.4	15.5	18.6	18.6	18.6	21.7
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°	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3	3487.3
2.5°	3543.1	3515.2	3406.7	3366.4	3261.0	3279.6	3223.8	3220.7	3208.3	3205.2	3202.1
5°	3629.9	3543.1	3412.9	3313.7	3254.8	3248.6	3208.3	3208.3	3220.7	3230.0	3208.3
7.5°	3772.5	3673.3	3453.2	3360.2	3307.5	3298.2	3270.3	3248.6	3276.5	3267.2	3242.4
10°	3936.8	3763.2	3530.7	3450.1	3363.3	3341.6	3341.6	3350.9	3304.4	3319.9	3295.1
12.5°	4119.7	3887.2	3629.9	3536.9	3434.6	3422.2	3416.0	3347.8	3372.6	3360.2	3298.2
15°	4352.2	4029.8	3757.0	3598.9	3512.1	3456.3	3375.7	3363.3	3347.8	3316.8	3288.9
17.5°	4603.3	4184.8	3815.9	3617.5	3487.3	3447.0	3385.0	3319.9	3273.4	3279.6	3257.9
20°	4817.1	4327.4	3837.6	3636.1	3468.7	3391.2	3295.1	3254.8	3205.2	3202.1	3199.0
22.5°	5071.3	4519.6	3868.6	3586.5	3412.9	3332.3	3267.2	3195.9	3161.8	3118.4	3140.1
25°	5375.1	4594.0	3874.8	3558.6	3372.6	3230.0	3195.9	3118.4	3106.0	3044.0	3056.4
27.5°	5595.2	4634.3	3825.2	3471.8	3279.6	3171.1	3109.1	3053.3	3031.6	2985.1	2972.7
30°	5889.7	4696.2	3719.8	3363.3	3186.6	3065.7	3028.5	3016.1	2954.1	2904.5	2898.3
32.5°	6224.5	4736.5	3651.6	3251.7	3090.5	2997.5	3016.1	2957.2	2879.7	2836.3	2823.9
35°	6491.1	4752.0	3481.1	3124.6	3025.4	2966.5	2944.8	2932.4	2820.8	2780.6	2749.6
37.5°	6897.1	4717.9	3338.5	3034.7	2954.1	2932.4	2913.8	2830.1	2703.1	2644.2	2600.8
40°	7371.4	4708.6	3155.6	2907.6	2885.9	2910.7	2854.9	2724.8	2548.1	2483.0	2452.0
42.5°	7827.1	4773.7	3040.9	2839.4	2811.5	2820.8	2743.4	2548.1	2461.3	2424.1	2374.5
45°	8589.6	4910.1	2851.8	2734.1	2721.7	2715.5	2622.5	2417.9	2368.3	2321.8	2312.5
47.5°	9277.8	4820.2	2731.0	2625.6	2638.0	2603.9	2405.5	2340.4	2284.6	2238.1	2222.6
50°	9318.1	4606.4	2560.5	2541.9	2545.0	2486.1	2297.0	2253.6	2182.3	2151.3	2129.6
52.5°	9107.3	4256.1	2402.4	2408.6	2417.9	2321.8	2163.7	2132.7	2073.8	2030.4	2018.0
55°	8515.2	3710.5	2247.4	2272.2	2297.0	2114.1	2064.5	1987.0	1940.5	1878.5	1881.6
57.5°	7501.6	2988.2	2030.4	2070.7	2123.4	1921.9	1884.7	1788.6	1720.4	1670.8	1664.6
60°	5027.9	2126.5	1704.9	1720.4	1838.2	1757.6	1754.5	1658.4	1565.4	1522.0	1497.2
62.5°	2966.5	1624.3	1472.4	1456.9	1453.8	1500.3	1577.8	1543.7	1422.8	1339.1	1363.9
65°	1553.0	1404.2	1370.1	1317.4	1286.4	1274.0	1332.9	1348.4	1267.8	1177.9	1171.7
67.5°	1305.0	1305.0	1277.1	1258.5	1215.1	1162.4	1125.2	1075.6	1063.2	1038.4	1007.4
70°	1187.2	1218.2	1208.9	1165.5	1128.3	1069.4	973.3	892.8	815.3	787.4	806.0
72.5°	1035.3	1066.3	1066.3	1044.6	995.0	905.2	812.2	719.2	654.1	604.5	598.3
75°	796.7	812.2	849.4	824.6	759.5	703.7	607.6	511.5	449.5	403.0	393.7
77.5°	508.4	533.2	533.2	530.1	483.6	430.9	368.9	300.7	254.2	220.1	210.8
80°	337.9	353.4	365.8	353.4	322.4	282.1	235.6	189.1	155.0	127.1	120.9
82.5°	248.0	266.6	275.9	263.5	232.5	201.5	167.4	133.3	99.2	77.5	71.3
85°	96.1	99.2	111.6	133.3	130.2	127.1	102.3	74.4	55.8	40.3	37.2
87.5°	24.8	21.7	24.8	24.8	21.7	18.6	18.6	18.6	18.6	9.3	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

(END OF REPORT)