

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: P530267

Luminaire Tested: **GALN-SA5C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17369 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

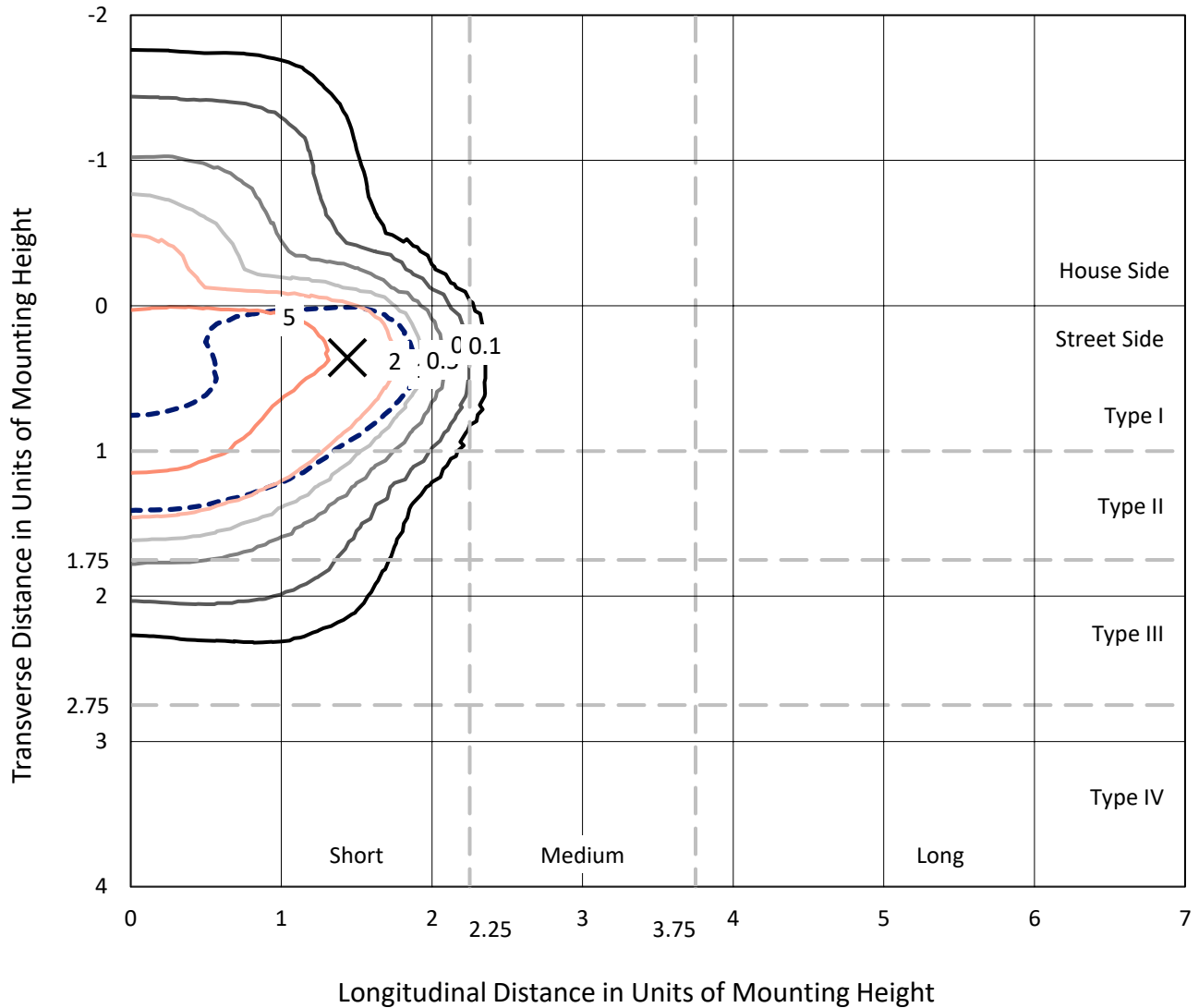
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

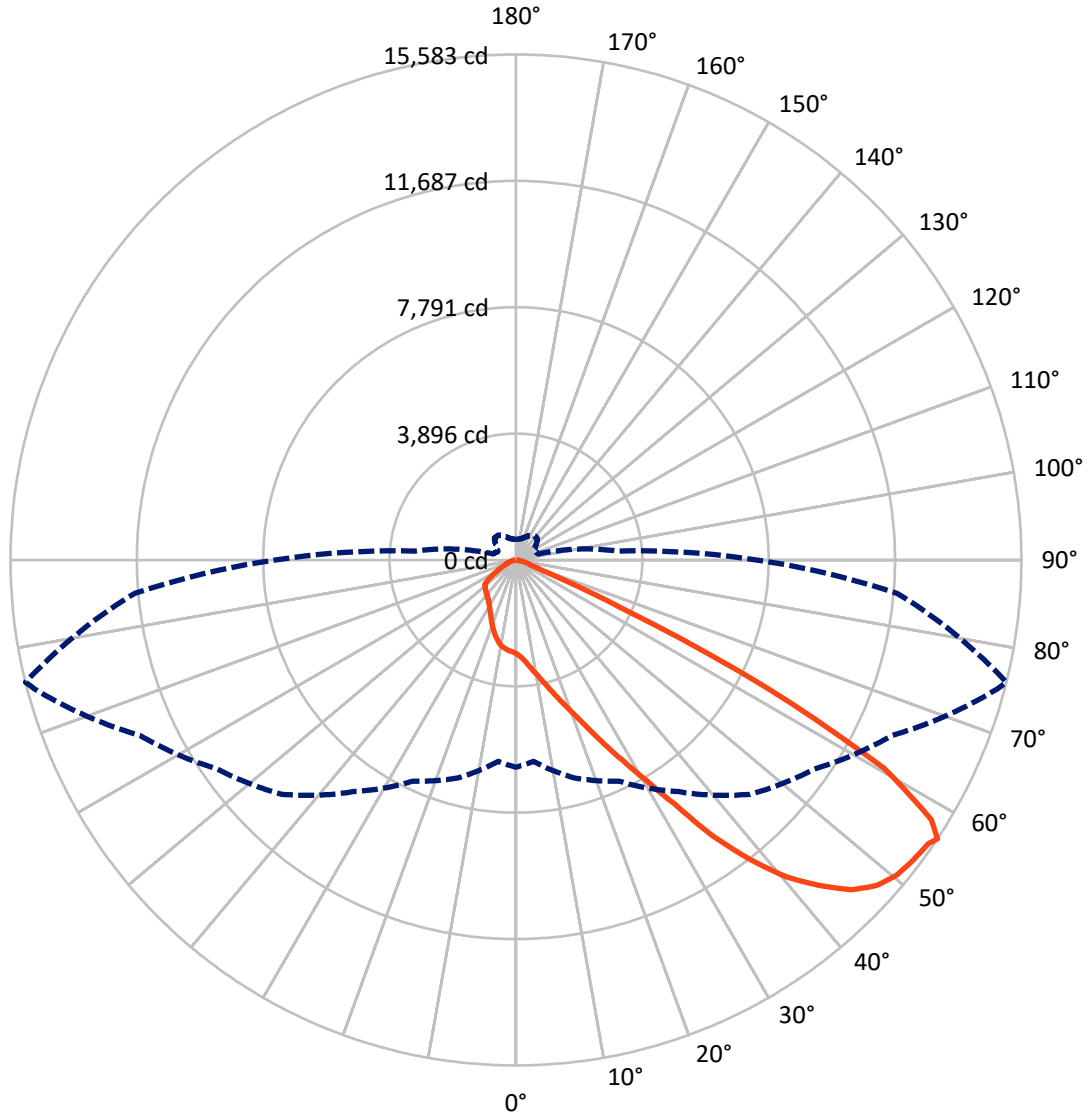
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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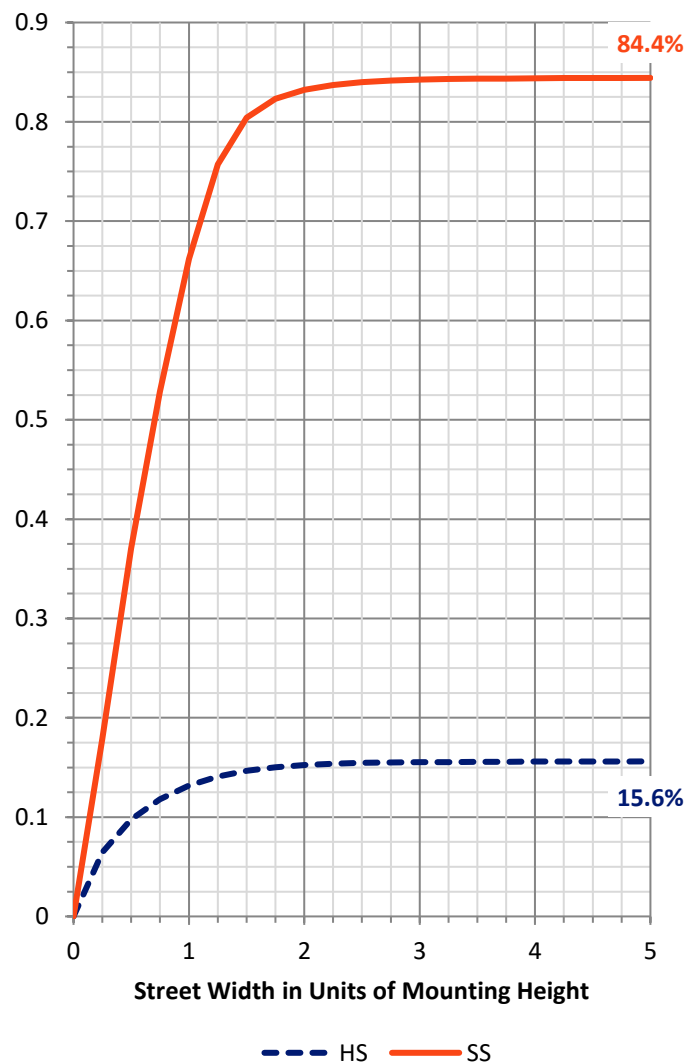
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.6	0.0	2728.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14640.4	0.0	14640.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	17369.0	0.0	17369.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.7
10°-20°	935.6	5.4
20°-30°	1696.6	9.8
30°-40°	2925.8	16.8
40°-50°	4753.1	27.4
50°-60°	5009.9	28.8
60°-70°	1530.7	8.8
70°-80°	196.2	1.1
80°-90°	29.8	0.2
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°	17369.0	100.0
0°-180°	17369.0	100.0

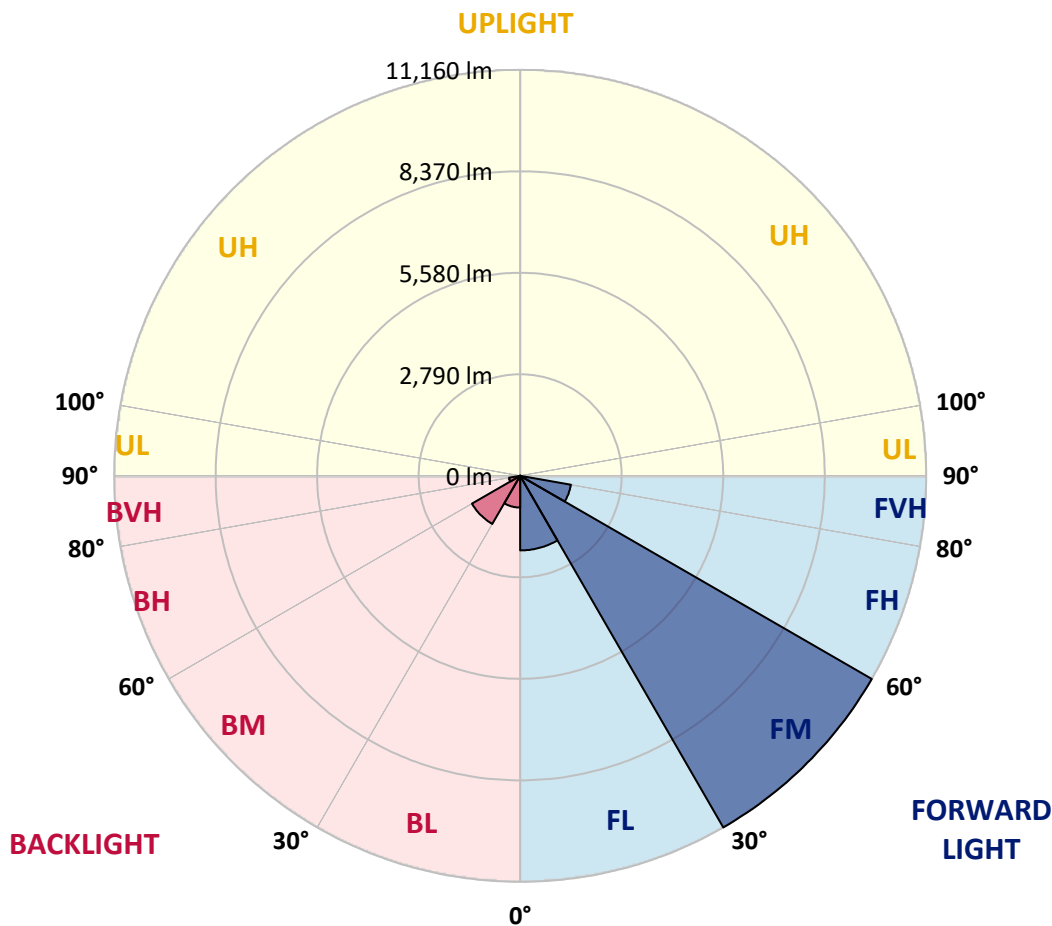


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2050.6	11.8			
FM (30°-60°)	11159.6	64.2			
FH (60°-80°)	1415.7	8.2			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	872.9	5.0	B2/1000		
BM (30°-60°)	1529.2	8.8	B2/2500		
BH (60°-80°)	311.3	1.8	B1/500		G1/500
BVH (80°-90°)	15.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	3329.7	3252.9	3256.1	3249.7	3240.1	3204.9	3099.2	3083.2	3012.8	2993.5	2929.5
5°	3729.9	3662.7	3701.1	3643.5	3589.1	3557.0	3384.2	3304.1	3192.1	3150.4	3060.8
7.5°	3979.7	3947.6	3934.8	3938.0	3886.8	3806.8	3729.9	3553.8	3403.4	3371.3	3182.4
10°	4101.3	4082.1	4101.3	4091.7	4114.1	4123.7	3989.3	3883.6	3662.7	3608.3	3313.7
12.5°	4130.1	4168.6	4184.6	4226.2	4280.6	4373.5	4363.9	4219.8	3925.2	3890.0	3515.4
15°	4200.6	4232.6	4216.6	4283.8	4386.3	4543.2	4626.4	4604.0	4287.0	4223.0	3749.1
17.5°	4264.6	4207.0	4261.4	4395.9	4498.3	4738.5	4940.2	5033.0	4680.8	4607.2	3963.7
20°	4351.1	4335.0	4325.4	4392.7	4575.2	4895.3	5295.5	5465.2	5122.7	5045.8	4271.0
22.5°	4613.6	4616.8	4610.4	4511.1	4642.4	5004.2	5606.1	6025.5	5650.9	5586.9	4620.0
25°	4959.4	4917.7	4885.7	4805.7	4789.7	5103.4	5919.9	6710.7	6284.9	6240.0	4997.8
27.5°	5324.4	5324.4	5228.3	5154.7	5052.2	5350.0	6208.0	7376.6	7050.0	6989.2	5327.6
30°	5721.4	5743.8	5731.0	5574.1	5510.1	5618.9	6502.6	8228.3	7927.3	7850.5	5871.8
32.5°	6307.3	6259.2	6313.7	6182.4	5993.5	6089.6	6966.8	8990.3	9067.1	8958.2	6585.8
35°	7082.1	7053.3	7018.0	6803.5	6579.4	6656.2	7623.1	9928.3	10498.2	10443.8	7306.2
37.5°	7776.8	7760.8	7732.0	7584.7	7325.4	7418.2	8369.1	10904.8	11894.2	11714.9	8324.3
40°	8506.8	8593.2	8500.4	8369.1	8132.2	8337.1	9246.4	11484.3	13069.2	12851.5	9102.3
42.5°	9496.1	9428.9	9470.5	9230.4	9102.3	9326.4	10126.8	12063.8	13981.6	13722.3	9928.3
45°	10549.5	10552.7	10440.6	10363.8	10030.8	10274.1	10667.9	12384.0	14708.4	14506.7	10552.7
47.5°	11225.0	11221.8	11343.5	11465.1	11122.6	10882.4	11036.1	12688.2	15083.0	14990.2	10780.0
50°	11119.4	11151.4	11308.3	11762.9	11942.2	11618.8	11381.9	12598.5	15252.7	15243.1	10975.3
52.5°	9672.2	9777.9	10040.4	10696.7	11599.6	11999.8	11743.7	12765.0	15335.9	15351.9	11266.6
55°	7363.8	7421.4	7920.9	8718.1	9717.0	11087.3	11599.6	12896.3	15400.0	15428.8	11618.8
56°	6387.3	6233.6	6954.0	7520.7	8714.9	10213.3	11234.6	12793.8	15361.5	15582.5	11794.9
57.5°	4821.7	4719.2	5301.9	6009.5	7158.9	8740.5	10101.2	12310.4	15102.2	15099.0	11542.0
60°	2932.7	2830.3	3278.5	3694.7	4338.2	5382.0	6825.9	9803.5	12768.2	13037.1	9345.6
62.5°	1744.9	1808.9	2250.8	2503.7	2711.8	2820.7	3531.4	5827.0	8519.6	8711.7	5798.2
65°	1162.2	1184.6	1517.6	1933.8	2026.6	1613.6	1437.5	2359.6	3694.7	3576.3	2391.6
67.5°	717.2	768.4	1018.1	1453.6	1610.4	1178.2	682.0	880.5	1018.1	1018.1	691.6
70°	435.4	461.0	678.8	989.3	1104.6	758.8	496.3	496.3	489.9	480.2	413.0
72.5°	208.1	224.1	345.8	509.1	518.7	400.2	384.2	419.4	409.8	406.6	342.6
75°	89.6	96.0	121.7	160.1	182.5	169.7	233.7	301.0	310.6	301.0	246.5
77.5°	28.8	32.0	44.8	57.6	60.8	73.6	99.3	124.9	144.1	134.5	121.7
80°	3.2	6.4	12.8	28.8	44.8	57.6	73.6	83.2	92.8	92.8	86.4
82.5°	3.2	3.2	12.8	25.6	41.6	54.4	70.4	80.0	92.8	96.0	89.6
85°	0.0	3.2	9.6	22.4	35.2	35.2	32.0	32.0	22.4	22.4	22.4
87.5°	0.0	0.0	3.2	3.2	3.2	6.4	6.4	6.4	6.4	6.4	6.4
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°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	2916.7	2910.3	2823.9	2769.4	2740.6	2683.0	2647.8	2622.2	2602.9	2580.5	2583.7
5°	2955.1	2932.7	2788.6	2689.4	2570.9	2506.9	2452.5	2407.6	2378.8	2372.4	2359.6
7.5°	3064.0	2945.5	2727.8	2548.5	2398.0	2334.0	2286.0	2257.2	2270.0	2241.2	2263.6
10°	3147.2	2971.1	2654.2	2394.8	2244.4	2196.3	2170.7	2193.1	2225.2	2212.3	2196.3
12.5°	3249.7	2996.8	2535.7	2247.6	2106.7	2071.5	2116.3	2157.9	2221.9	2247.6	2215.5
15°	3364.9	3025.6	2385.2	2077.9	1988.2	2017.0	2093.9	2167.5	2231.6	2263.6	2282.8
17.5°	3505.8	3016.0	2238.0	1943.4	1876.2	1959.4	2052.3	2119.5	2215.5	2263.6	2250.8
20°	3637.1	2983.9	2074.7	1808.9	1812.1	1889.0	1965.8	2074.7	2125.9	2189.9	2167.5
22.5°	3761.9	2926.3	1905.0	1716.1	1716.1	1834.5	1873.0	1943.4	1988.2	2020.2	2017.0
25°	3938.0	2817.5	1764.1	1626.4	1664.9	1741.7	1773.7	1796.1	1776.9	1802.5	1805.7
27.5°	4062.9	2705.4	1648.9	1546.4	1616.8	1674.5	1664.9	1652.1	1607.2	1572.0	1594.4
30°	4197.4	2574.1	1549.6	1492.0	1530.4	1581.6	1543.2	1504.8	1434.3	1376.7	1379.9
32.5°	4389.5	2513.3	1463.2	1427.9	1479.2	1485.6	1443.9	1386.3	1315.9	1261.5	1258.3
35°	4748.1	2474.9	1389.5	1386.3	1395.9	1399.1	1357.5	1287.1	1258.3	1213.4	1229.4
37.5°	5106.6	2455.7	1338.3	1325.5	1322.3	1325.5	1277.5	1210.2	1264.7	1261.5	1267.9
40°	5564.5	2542.1	1264.7	1248.6	1251.8	1251.8	1191.0	1171.8	1267.9	1277.5	1280.7
42.5°	6028.7	2651.0	1216.6	1165.4	1178.2	1178.2	1146.2	1123.8	1191.0	1127.0	1117.4
45°	6432.1	2811.1	1165.4	1082.2	1114.2	1130.2	1120.6	1082.2	1040.5	931.7	931.7
47.5°	6563.4	2951.9	1104.6	1002.1	1027.7	1098.2	1069.4	989.3	915.7	826.0	819.6
50°	6793.9	3105.6	1056.5	909.3	963.7	1050.1	1021.3	941.3	858.0	794.0	797.2
52.5°	7030.8	3281.7	966.9	800.4	867.6	1011.7	1011.7	922.1	794.0	749.2	742.8
55°	7386.2	3275.3	806.8	656.3	774.8	954.1	970.1	826.0	710.8	675.5	675.5
56°	7437.4	3128.0	726.8	614.7	733.2	938.1	941.3	800.4	678.8	640.3	640.3
57.5°	7053.3	2823.9	637.1	563.5	682.0	909.3	912.5	778.0	653.1	598.7	592.3
60°	5426.8	1911.4	531.5	502.7	617.9	819.6	835.6	707.6	573.1	531.5	528.3
62.5°	3064.0	1059.7	467.4	454.6	531.5	698.0	746.0	617.9	486.7	464.2	470.6
65°	1399.1	582.7	393.8	368.2	429.0	537.9	601.9	509.1	400.2	374.6	374.6
67.5°	512.3	397.0	336.2	291.4	301.0	349.0	390.6	329.8	265.7	227.3	236.9
70°	365.0	333.0	294.6	252.9	233.7	227.3	224.1	185.7	131.3	102.5	108.9
72.5°	294.6	275.3	246.5	214.5	182.5	153.7	131.3	96.0	60.8	41.6	38.4
75°	211.3	201.7	179.3	153.7	128.1	108.9	89.6	60.8	32.0	16.0	16.0
77.5°	108.9	108.9	105.7	96.0	80.0	64.0	51.2	35.2	19.2	6.4	6.4
80°	83.2	89.6	92.8	83.2	73.6	57.6	41.6	25.6	12.8	3.2	3.2
82.5°	80.0	92.8	99.3	86.4	73.6	54.4	41.6	25.6	12.8	3.2	3.2
85°	19.2	19.2	28.8	32.0	41.6	44.8	35.2	22.4	9.6	3.2	3.2
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	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)