

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: P529333

Luminaire Tested: **GALN-SA4C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529333  
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-SA4C-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA 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: 15383 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

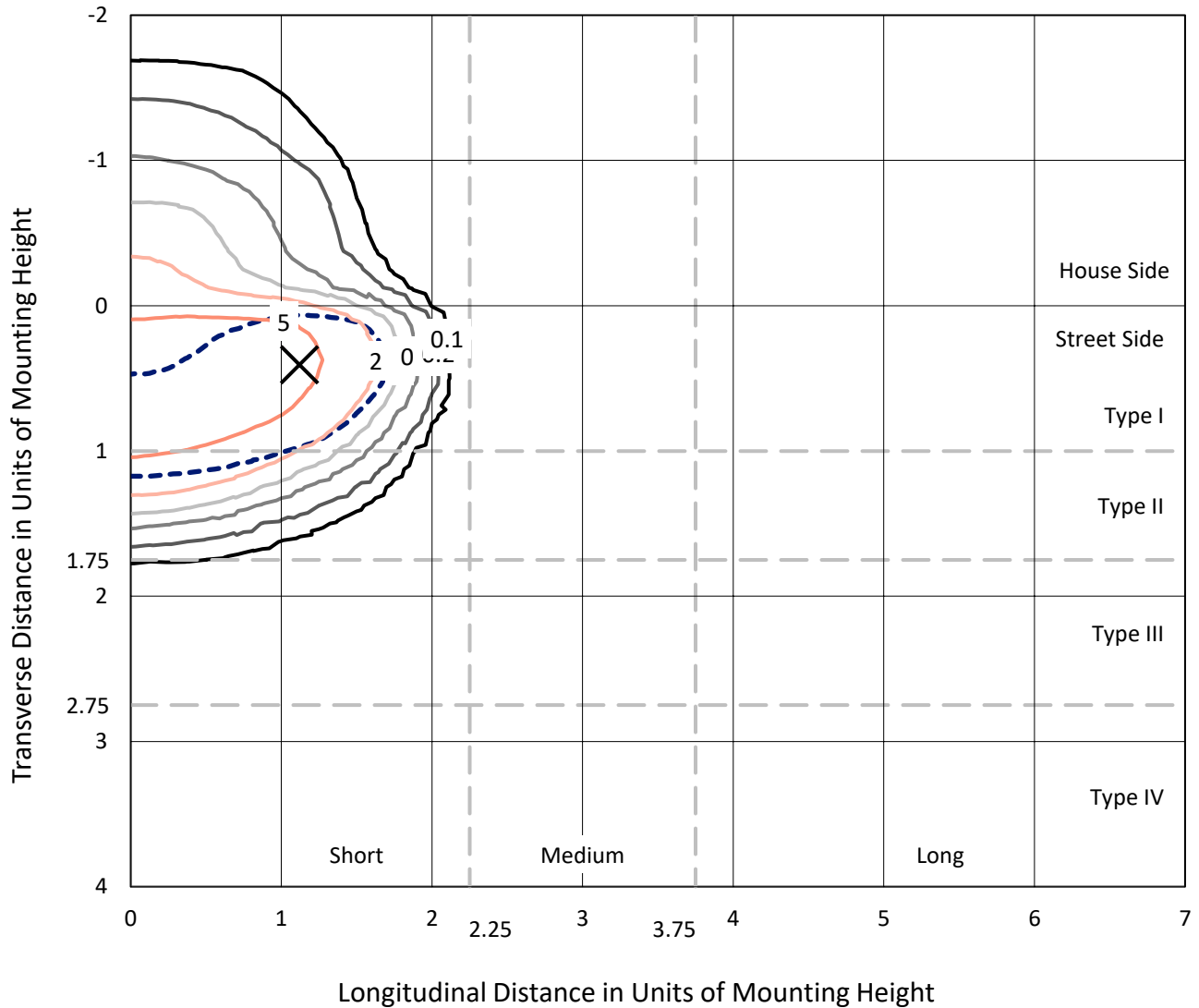
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

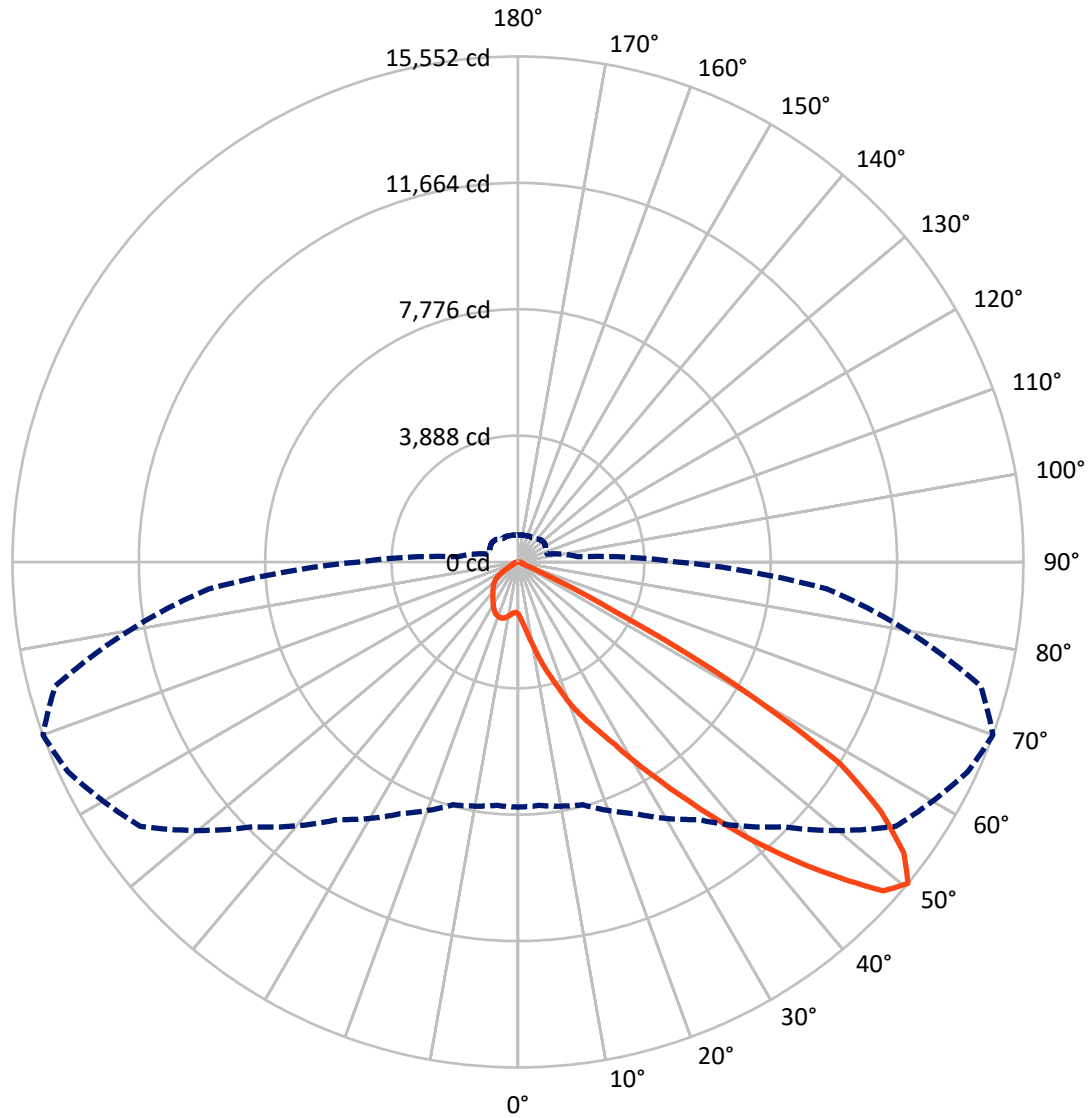
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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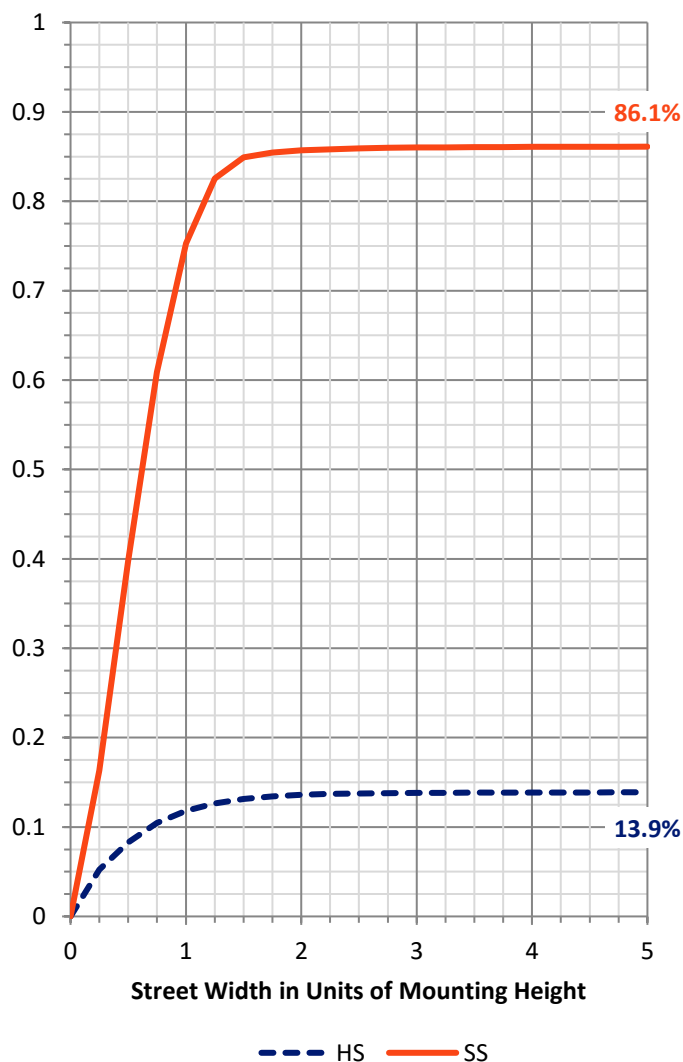
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2148.3	0.0	2148.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	13234.7	0.0	13234.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	15383.0	0.0	15383.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.2	1.3
10°-20°	896.3	5.8
20°-30°	1880.2	12.2
30°-40°	3240.8	21.1
40°-50°	4736.5	30.8
50°-60°	3688.9	24.0
60°-70°	625.0	4.1
70°-80°	85.9	0.6
80°-90°	22.2	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°	15383.0	100.0
0°-180°	15383.0	100.0

**Coefficient of Utilization**



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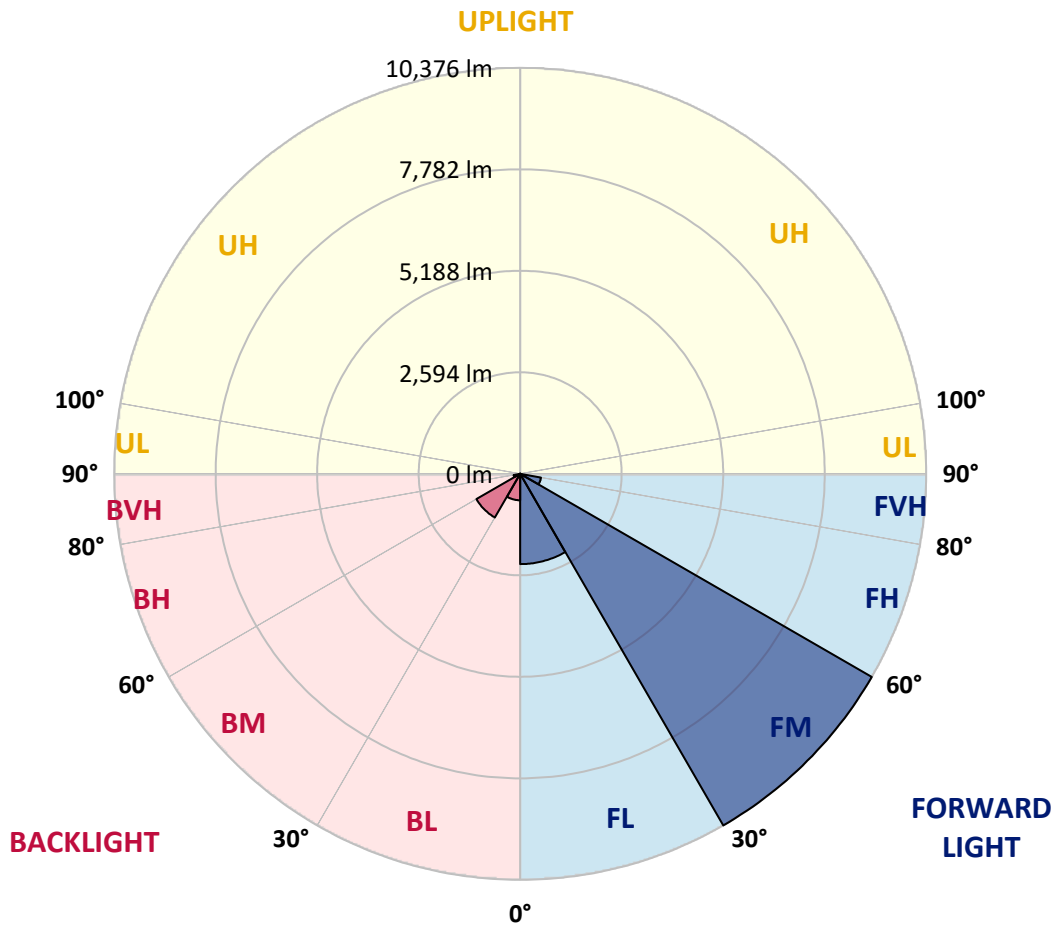
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2307.6	15.0			
FM (30°-60°)	10375.6	67.4			
FH (60°-80°)	541.2	3.5			G0/660
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	676.0	4.4	B2/1000		
BM (30°-60°)	1290.6	8.4	B2/2500		
BH (60°-80°)	169.7	1.1	B1/500		G1/500
BVH (80°-90°)	12.0	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	2086.6	2071.4	2038.5	1977.8	1952.5	1891.8	1856.4	1788.1	1745.1	1697.1	1644.0
5°	2938.9	2860.5	2812.4	2744.1	2544.3	2420.4	2215.6	2041.0	1960.1	1871.6	1750.2
7.5°	3819.0	3768.5	3702.7	3556.0	3419.4	3161.5	2809.9	2425.5	2261.1	2109.3	1869.1
10°	4547.4	4405.8	4398.2	4289.5	4140.2	3831.7	3409.3	2931.3	2637.9	2415.4	2038.5
12.5°	5055.8	4926.8	4985.0	4972.3	4833.2	4550.0	4061.8	3429.6	3123.5	2777.0	2213.0
15°	5518.6	5465.5	5447.8	5432.7	5377.0	5167.1	4729.5	4036.6	3593.9	3176.6	2410.3
17.5°	5971.4	5834.8	5900.5	5913.2	5908.1	5718.4	5308.7	4613.2	4092.2	3599.0	2617.7
20°	6373.5	6386.1	6297.6	6279.9	6264.7	6257.2	5857.6	5184.8	4704.3	4041.6	2888.3
22.5°	6889.5	6800.9	6879.3	6828.8	6730.1	6669.4	6363.4	5690.6	5235.4	4575.3	3164.0
25°	7499.0	7569.8	7385.2	7364.9	7256.2	7046.3	6770.6	6257.2	5746.3	5071.0	3462.4
27.5°	8250.1	8126.2	8078.2	7966.9	7769.6	7681.1	7357.3	6841.4	6363.4	5592.0	3750.8
30°	8895.1	8862.2	8621.9	8490.4	8318.4	8315.9	7863.2	7633.0	7167.7	6408.9	4147.8
32.5°	9421.2	9277.0	9188.5	9097.4	8958.3	8996.3	8614.3	8492.9	8025.1	7167.7	4615.7
35°	9772.7	9669.0	9615.9	9476.8	9436.3	9605.8	9446.4	9395.9	9011.4	8235.0	5164.6
37.5°	9884.0	9916.9	9906.8	9732.2	9818.2	10276.0	10480.9	10349.4	10147.0	9360.5	5758.9
40°	9982.6	10005.4	9954.8	10159.7	10405.0	10926.0	11667.1	11449.5	11373.7	10501.1	6586.0
42.5°	10038.3	10020.6	10020.6	10374.6	10746.4	11793.5	12812.8	12668.6	12610.4	11715.1	7542.0
45°	9798.0	9626.0	9810.6	10291.2	11039.8	12220.9	13728.3	13928.1	13844.7	13159.3	8659.9
47.5°	8900.1	9006.4	9110.1	9752.5	10683.2	12089.4	14289.8	14970.1	15124.4	14373.3	9393.3
50°	7542.0	7519.2	7734.2	8543.5	9674.1	11522.9	14181.0	15271.1	15551.9	14737.5	9547.6
52.5°	5485.8	5652.7	5885.4	6689.6	8030.1	10056.0	12777.4	14494.7	14869.0	14289.8	9446.4
55°	3194.3	3009.7	3533.2	4213.6	5478.2	7585.0	10802.1	12848.2	13541.2	13475.4	8935.6
57.5°	1279.8	1239.3	1418.9	1912.1	2858.0	4701.7	7855.6	10556.7	11667.1	12342.3	7853.1
60°	561.5	548.8	644.9	779.0	1168.5	2167.5	4297.1	6565.7	7724.1	8624.5	5404.8
62.5°	404.7	399.6	447.7	495.7	617.1	943.4	1805.8	2645.5	3298.0	3983.4	2420.4
65°	326.3	338.9	371.8	397.1	455.3	523.5	637.4	736.0	902.9	935.8	533.7
67.5°	265.6	275.7	306.0	333.9	344.0	283.3	293.4	258.0	258.0	230.2	184.6
70°	194.7	197.3	232.7	265.6	212.5	113.8	199.8	199.8	179.6	172.0	156.8
72.5°	144.2	146.7	174.5	164.4	83.5	70.8	146.7	161.9	146.7	139.1	126.5
75°	106.2	108.8	91.1	37.9	35.4	45.5	86.0	111.3	106.2	103.7	96.1
77.5°	20.2	15.2	12.6	17.7	25.3	37.9	55.6	68.3	70.8	75.9	70.8
80°	2.5	2.5	7.6	15.2	27.8	40.5	58.2	65.8	68.3	70.8	65.8
82.5°	0.0	2.5	7.6	15.2	27.8	37.9	50.6	58.2	63.2	65.8	63.2
85°	0.0	2.5	5.1	12.6	22.8	27.8	25.3	17.7	15.2	17.7	12.6
87.5°	0.0	0.0	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	1613.6	1603.5	1568.1	1530.1	1497.3	1512.4	1497.3	1484.6	1489.7	1484.6	1479.6
5°	1702.1	1656.6	1580.7	1547.9	1520.0	1517.5	1509.9	1507.4	1509.9	1509.9	1487.2
7.5°	1785.6	1712.2	1631.3	1595.9	1563.0	1565.6	1547.9	1547.9	1545.3	1532.7	1527.6
10°	1912.1	1813.4	1709.7	1646.5	1606.0	1598.4	1580.7	1563.0	1563.0	1563.0	1537.7
12.5°	2051.2	1927.2	1785.6	1712.2	1664.2	1626.3	1598.4	1593.4	1565.6	1560.5	1547.9
15°	2172.6	2015.7	1836.2	1735.0	1674.3	1623.7	1580.7	1552.9	1540.3	1532.7	1522.6
17.5°	2291.4	2091.6	1864.0	1735.0	1669.3	1611.1	1565.6	1540.3	1509.9	1515.0	1494.7
20°	2450.8	2172.6	1871.6	1702.1	1621.2	1565.6	1504.9	1492.2	1474.5	1459.3	1464.4
22.5°	2605.0	2230.7	1848.8	1661.7	1545.3	1479.6	1449.2	1434.0	1426.5	1413.8	1396.1
25°	2744.1	2294.0	1813.4	1588.3	1464.4	1416.3	1388.5	1386.0	1368.3	1368.3	1335.4
27.5°	2885.8	2316.7	1752.7	1502.3	1393.6	1365.8	1353.1	1348.0	1340.5	1322.8	1300.0
30°	3047.6	2324.3	1664.2	1413.8	1330.3	1300.0	1317.7	1330.3	1297.5	1264.6	1274.7
32.5°	3181.7	2306.6	1558.0	1330.3	1284.8	1269.6	1305.1	1317.7	1279.8	1244.4	1226.6
35°	3343.6	2263.6	1454.3	1264.6	1239.3	1269.6	1300.0	1300.0	1224.1	1181.1	1171.0
37.5°	3588.9	2215.6	1358.2	1208.9	1191.2	1254.5	1294.9	1267.1	1148.2	1095.1	1082.5
40°	3851.9	2185.2	1264.6	1153.3	1165.9	1229.2	1251.9	1165.9	1044.5	1011.7	1001.6
42.5°	4233.8	2124.5	1181.1	1105.2	1143.2	1193.8	1193.8	1039.5	994.0	976.3	973.7
45°	4709.3	2081.5	1107.8	1064.8	1110.3	1123.0	1082.5	973.7	940.9	935.8	938.3
47.5°	4942.0	1998.0	1031.9	1016.7	1049.6	1052.1	945.9	920.6	892.8	885.2	880.2
50°	4906.6	1848.8	933.3	953.5	999.0	973.7	862.4	867.5	842.2	839.7	827.0
52.5°	4658.7	1613.6	834.6	882.7	933.3	859.9	794.2	789.1	789.1	756.2	743.6
55°	4130.1	1300.0	715.8	776.5	837.2	723.3	705.6	700.6	687.9	657.6	650.0
57.5°	3270.2	953.5	538.7	604.5	710.7	614.6	612.1	589.3	556.4	533.7	533.7
60°	1944.9	548.8	338.9	369.3	470.4	498.2	553.9	543.8	488.1	452.7	442.6
62.5°	887.7	283.3	215.0	220.0	252.9	323.7	435.0	503.3	424.9	364.2	359.1
65°	298.4	209.9	177.0	169.5	174.5	194.7	260.5	356.6	338.9	280.7	270.6
67.5°	182.1	187.2	166.9	154.3	154.3	151.8	149.2	161.9	199.8	194.7	197.3
70°	156.8	172.0	154.3	139.1	134.0	126.5	106.2	88.5	75.9	88.5	93.6
72.5°	126.5	136.6	131.5	118.9	106.2	96.1	75.9	58.2	43.0	37.9	37.9
75°	93.6	101.2	106.2	91.1	80.9	68.3	55.6	37.9	22.8	15.2	15.2
77.5°	68.3	75.9	78.4	70.8	60.7	48.1	35.4	25.3	12.6	5.1	5.1
80°	58.2	68.3	75.9	70.8	63.2	45.5	32.9	17.7	10.1	2.5	2.5
82.5°	55.6	68.3	75.9	68.3	60.7	43.0	32.9	20.2	7.6	2.5	2.5
85°	12.6	17.7	22.8	27.8	32.9	32.9	25.3	15.2	7.6	2.5	2.5
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	2.5	2.5	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)