

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: P529476

Luminaire Tested: **GALN-SA4C-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18448 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

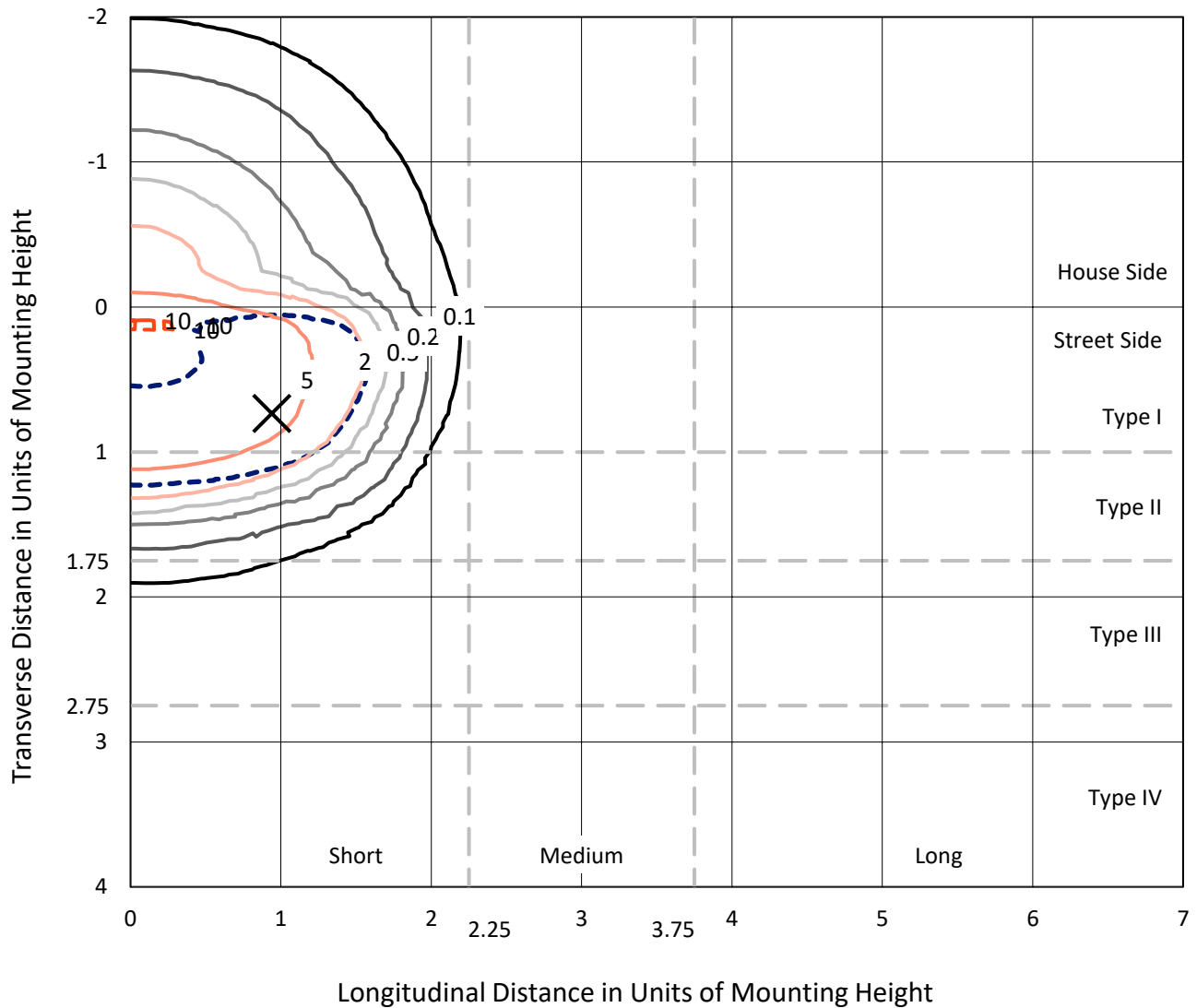
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

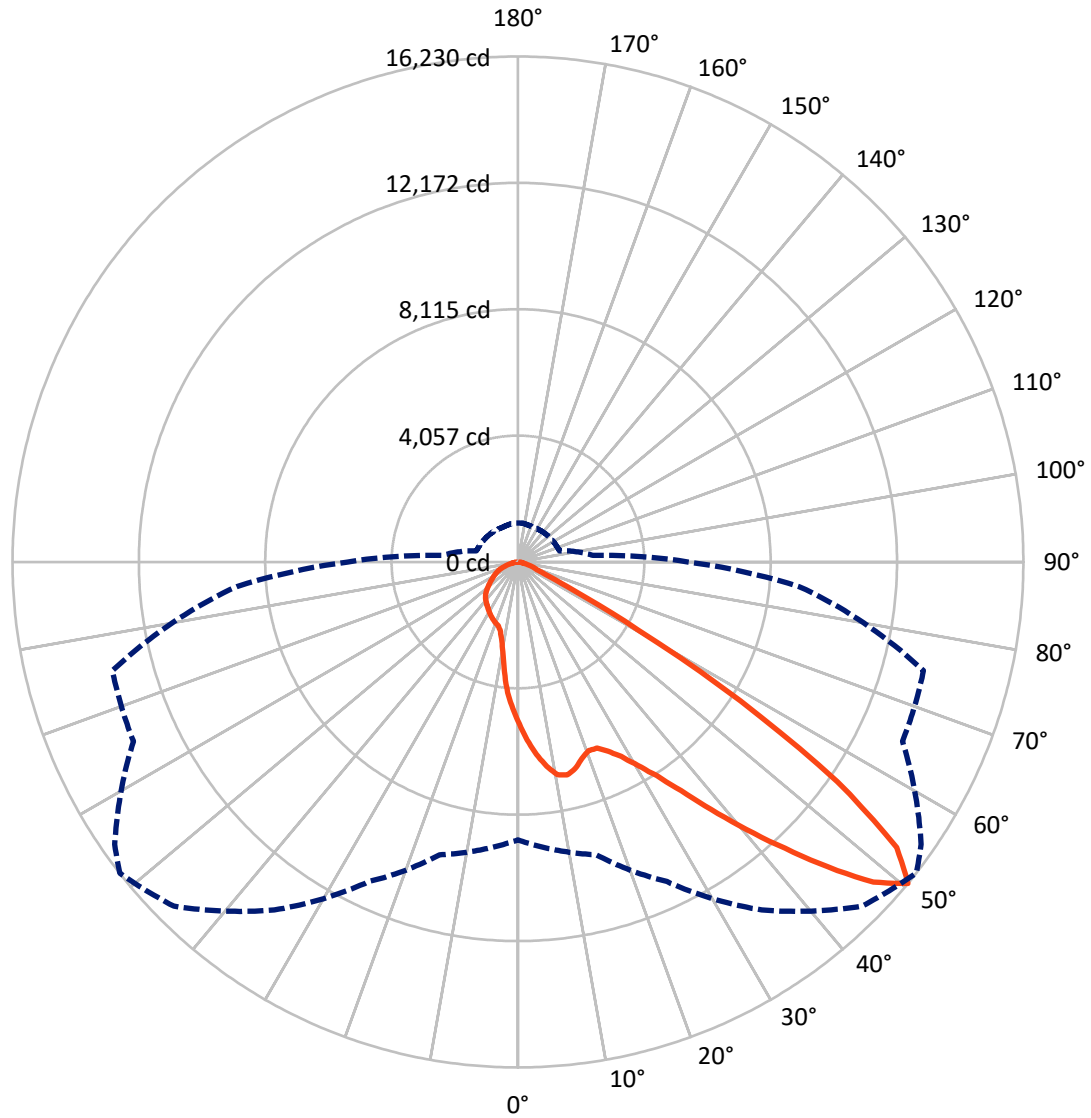
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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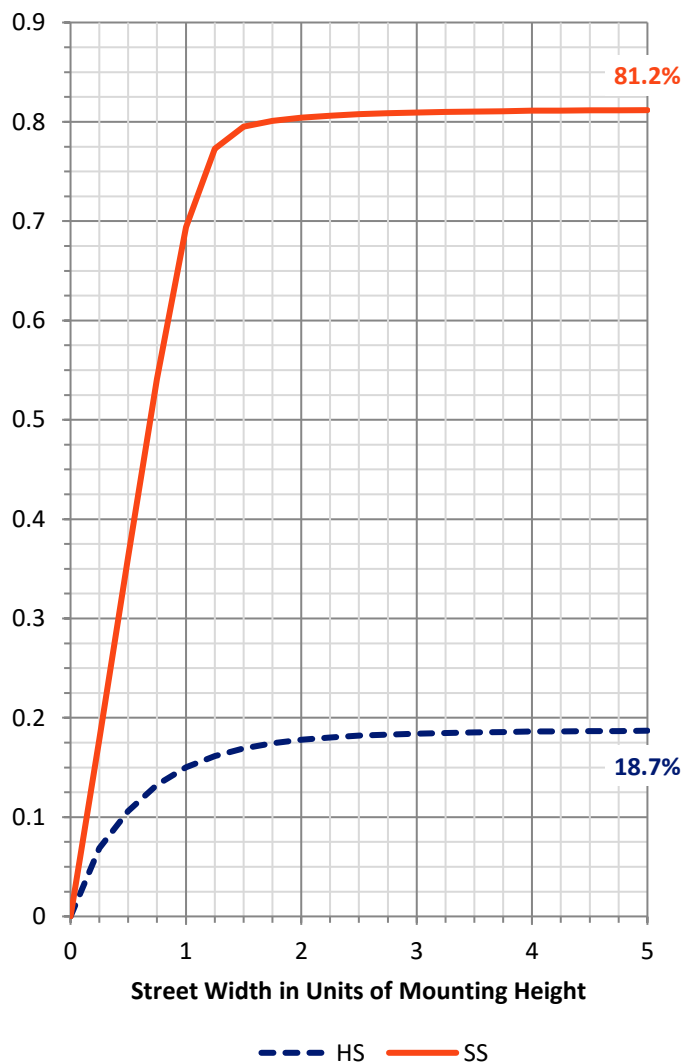
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3467.8	0.0	3467.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14980.2	0.0	14980.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	18448.0	0.0	18448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.3	2.6
10°-20°	1284.6	7.0
20°-30°	2163.9	11.7
30°-40°	3631.3	19.7
40°-50°	5554.9	30.1
50°-60°	4050.0	22.0
60°-70°	901.3	4.9
70°-80°	325.1	1.8
80°-90°	57.5	0.3
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°	18448.0	100.0
0°-180°	18448.0	100.0

Coefficient of Utilization



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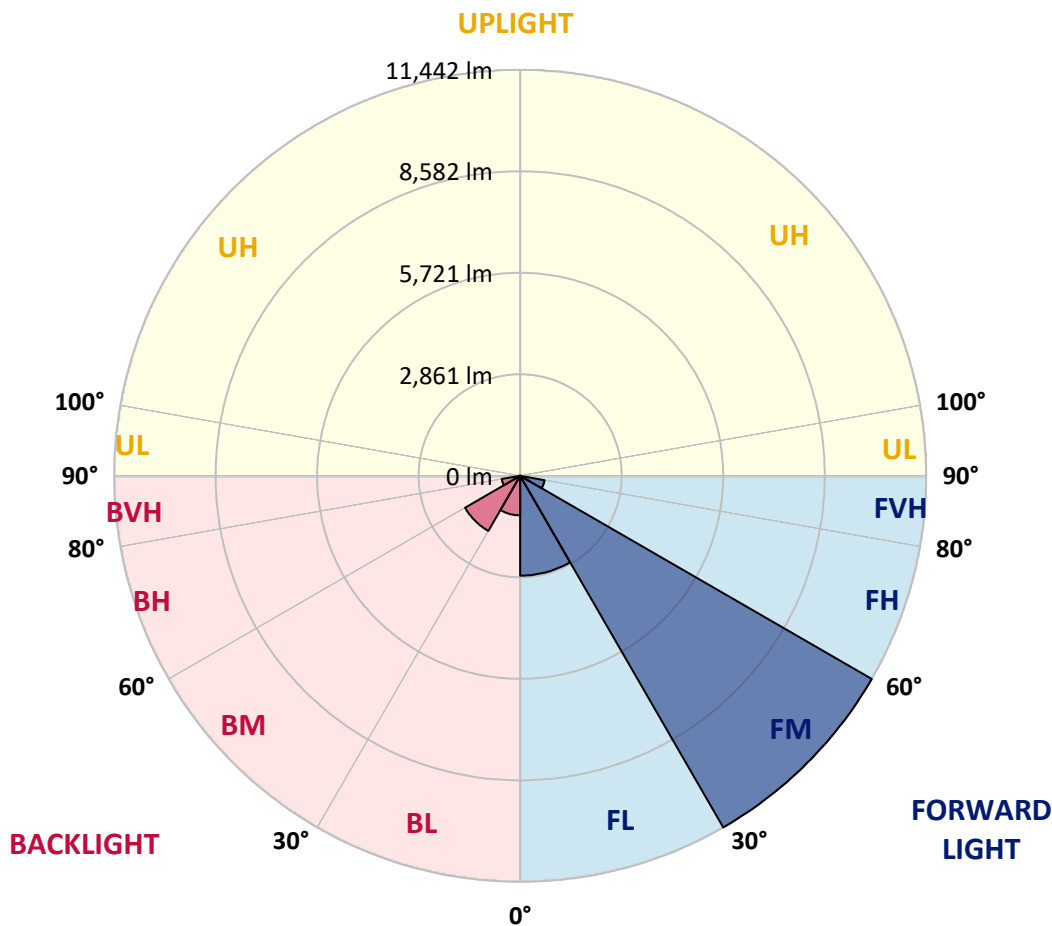
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2814.0	15.3			
FM (30°-60°)	11442.4	62.0			
FH (60°-80°)	698.1	3.8			G1/1800
FVH (80°-90°)	25.8	0.1			G1/100
BL (0°-30°)	1113.9	6.0	B3/2500		
BM (30°-60°)	1793.8	9.7	B2/2500		
BH (60°-80°)	528.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	31.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2
2.5°	6122.8	6005.0	6018.3	5933.9	5842.7	5816.0	5722.6	5633.7	5567.0	5424.7	5293.6
5°	6692.0	6656.4	6603.1	6536.4	6467.4	6298.5	6202.9	6091.7	5847.2	5627.0	5409.2
7.5°	6774.2	6767.6	6796.5	6796.5	6820.9	6756.5	6620.8	6543.0	6282.9	5925.0	5520.3
10°	6196.2	6216.2	6356.3	6538.6	6792.0	6967.7	6945.4	6925.4	6640.9	6151.7	5651.5
12.5°	5736.0	5691.5	5773.8	5929.4	6309.6	6734.2	7021.0	7023.3	6949.9	6514.1	5747.1
15°	5475.9	5507.0	5529.2	5602.6	5889.4	6380.7	6885.4	7034.4	7356.7	6769.8	5898.3
17.5°	5642.6	5538.1	5533.7	5551.5	5698.2	6067.3	6634.2	6889.9	7579.1	7098.8	6085.0
20°	5860.5	5858.3	5796.0	5773.8	5771.6	6100.6	6469.7	6816.5	7696.9	7525.7	6274.0
22.5°	6242.9	6242.9	6140.6	6091.7	5987.2	6256.2	6491.9	6727.6	7892.5	7819.2	6365.2
25°	6883.2	6778.7	6603.1	6483.0	6423.0	6518.6	6727.6	6938.8	8063.7	8130.4	6554.1
27.5°	7474.6	7310.1	7223.3	7016.6	6936.5	6881.0	7072.2	7285.6	8263.8	8615.1	6656.4
30°	8146.0	8117.1	7961.5	7694.7	7496.8	7394.5	7570.2	7781.4	8630.7	9110.9	6892.1
32.5°	9346.5	9084.2	8873.0	8546.2	8223.8	8005.9	8179.3	8319.4	9239.8	9628.9	7150.0
35°	10642.7	10558.2	10193.6	9604.4	9110.9	8915.2	9017.5	9122.0	9949.1	10420.4	7583.5
37.5°	11916.6	11801.0	11500.9	11005.1	10404.8	10006.9	10080.2	10202.5	10745.0	11487.5	8112.6
40°	12832.6	12690.3	12539.1	12465.8	11869.9	11325.2	11283.0	11314.1	11821.0	12488.0	8699.6
42.5°	12899.3	13074.9	13121.6	13417.3	13277.3	12830.4	12570.3	12576.9	12848.2	13477.4	9293.2
45°	12759.2	12596.9	12941.5	13748.6	14211.0	14420.0	13982.0	13926.4	13484.0	14050.9	9588.9
47.5°	11289.7	11334.1	11916.6	13192.8	14528.9	15462.7	15360.4	15175.9	13824.2	14030.9	9542.2
50°	8924.1	9193.1	9733.4	11323.0	13639.6	15627.2	16229.7	15802.9	13621.9	13479.6	9066.4
52.5°	5942.8	6053.9	6409.6	8461.7	10967.3	13968.7	15229.3	15327.1	13435.1	12757.0	8463.9
55°	2645.7	2636.8	3137.0	4419.8	6881.0	10629.4	12443.5	13039.4	12717.0	12021.1	7877.0
57.5°	1120.5	1158.3	1362.9	1909.8	3383.8	6414.1	8430.6	8953.0	9780.1	9871.2	6042.8
60°	758.1	762.6	818.2	956.0	1416.2	3012.5	4422.0	5049.0	5640.4	5600.4	3205.9
62.5°	595.8	611.4	653.6	709.2	840.4	1367.3	1978.7	2327.7	2365.5	1989.8	1216.1
65°	509.1	511.3	553.6	600.3	658.1	795.9	953.8	971.6	982.7	947.1	893.7
67.5°	420.2	424.6	458.0	511.3	564.7	609.2	653.6	675.9	727.0	827.0	813.7
70°	333.5	340.2	369.1	413.5	462.4	489.1	544.7	564.7	611.4	689.2	720.3
72.5°	253.5	255.7	280.1	311.3	355.7	382.4	429.1	451.3	482.4	549.1	578.0
75°	182.3	189.0	206.8	222.3	229.0	246.8	291.2	315.7	360.2	389.1	391.3
77.5°	95.6	100.0	104.5	104.5	126.7	160.1	189.0	202.3	233.4	255.7	244.6
80°	37.8	40.0	51.1	68.9	88.9	115.6	135.6	142.3	169.0	182.3	189.0
82.5°	22.2	24.5	33.3	48.9	64.5	82.3	97.8	104.5	122.3	137.8	142.3
85°	11.1	13.3	20.0	31.1	42.2	51.1	48.9	46.7	46.7	44.5	46.7
87.5°	4.4	4.4	6.7	6.7	6.7	8.9	11.1	11.1	11.1	13.3	13.3
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°	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2	5200.2
2.5°	5206.9	5117.9	5035.7	4884.5	4720.0	4673.3	4482.1	4413.2	4364.2	4306.4	4288.7
5°	5233.5	5115.7	4851.1	4546.5	4304.2	3993.0	3788.4	3568.3	3408.2	3368.2	3357.1
7.5°	5289.1	5086.8	4631.0	4170.8	3675.0	3252.6	2930.2	2756.8	2603.4	2594.5	2579.0
10°	5351.4	5000.1	4390.9	3668.4	3034.7	2643.4	2450.0	2374.4	2336.6	2327.7	2323.3
12.5°	5402.5	4982.3	4121.9	3179.2	2581.2	2345.5	2287.7	2281.1	2296.6	2301.1	2310.0
15°	5424.7	4911.2	3797.3	2741.3	2298.8	2212.1	2236.6	2263.3	2274.4	2303.3	2281.1
17.5°	5467.0	4820.0	3397.1	2394.4	2141.0	2156.6	2198.8	2229.9	2247.7	2267.7	2238.8
20°	5489.2	4737.7	3021.4	2187.7	2085.4	2114.3	2172.1	2196.6	2218.8	2227.7	2194.3
22.5°	5469.2	4568.8	2690.1	2020.9	2032.1	2069.8	2121.0	2147.7	2134.3	2098.7	2078.7
25°	5415.8	4330.9	2345.5	1914.2	1956.5	2023.2	2063.2	2043.2	2018.7	1998.7	1992.0
27.5°	5413.6	4039.6	2096.5	1816.4	1892.0	1983.1	1969.8	1952.0	1963.1	1947.6	1929.8
30°	5424.7	3757.3	1892.0	1760.8	1845.3	1889.8	1905.3	1887.5	1900.9	1872.0	1880.9
32.5°	5366.9	3481.6	1758.6	1696.3	1789.7	1787.5	1838.6	1852.0	1820.8	1760.8	1769.7
35°	5391.4	3259.3	1645.2	1667.4	1727.5	1727.5	1767.5	1751.9	1669.7	1634.1	1643.0
37.5°	5560.4	3041.4	1589.6	1627.4	1667.4	1685.2	1671.9	1605.2	1585.2	1585.2	1589.6
40°	5720.4	2854.7	1556.3	1618.5	1611.9	1623.0	1525.2	1531.8	1531.8	1534.0	1522.9
42.5°	5862.7	2727.9	1529.6	1565.2	1576.3	1518.5	1458.5	1451.8	1467.3	1465.1	1456.2
45°	5913.8	2623.4	1491.8	1505.1	1514.0	1418.4	1389.5	1376.2	1394.0	1400.6	1409.5
47.5°	5718.2	2536.7	1449.6	1422.9	1405.1	1342.8	1305.0	1280.6	1302.8	1340.6	1349.5
50°	5467.0	2423.3	1382.9	1331.7	1293.9	1267.3	1240.6	1216.1	1231.7	1258.4	1251.7
52.5°	5095.7	2245.5	1298.4	1245.0	1180.5	1187.2	1162.8	1149.4	1158.3	1158.3	1151.6
55°	4566.6	1845.3	1156.1	1118.3	1064.9	1082.7	1087.2	1069.4	1051.6	1067.2	1053.8
57.5°	3117.0	1302.8	1031.6	1031.6	978.2	1002.7	1000.5	958.2	916.0	920.4	911.5
60°	1803.1	1038.3	951.6	942.7	887.1	907.1	911.5	882.6	818.2	822.6	813.7
62.5°	1024.9	887.1	831.5	818.2	807.0	824.8	824.8	787.0	731.4	735.9	727.0
65°	871.5	822.6	742.6	740.3	735.9	740.3	722.6	682.5	633.6	613.6	615.8
67.5°	791.5	760.4	682.5	662.5	649.2	647.0	613.6	575.8	553.6	535.8	533.6
70°	693.7	669.2	611.4	584.7	571.4	540.3	506.9	482.4	451.3	442.4	451.3
72.5°	549.1	546.9	524.7	495.8	466.9	442.4	413.5	380.2	351.3	344.6	329.0
75°	380.2	384.6	389.1	384.6	360.2	329.0	295.7	269.0	233.4	213.4	209.0
77.5°	249.0	255.7	262.3	253.5	237.9	209.0	186.8	153.4	126.7	111.2	108.9
80°	182.3	191.2	195.6	189.0	171.2	149.0	124.5	97.8	77.8	64.5	64.5
82.5°	140.1	149.0	153.4	142.3	124.5	106.7	88.9	68.9	53.4	42.2	40.0
85°	48.9	46.7	55.6	57.8	68.9	64.5	53.4	40.0	31.1	22.2	20.0
87.5°	13.3	13.3	15.6	15.6	13.3	11.1	11.1	11.1	8.9	6.7	6.7
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)