

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: P530880

Luminaire Tested: **GALN-SA6A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530880
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-SA6A-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 17988 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

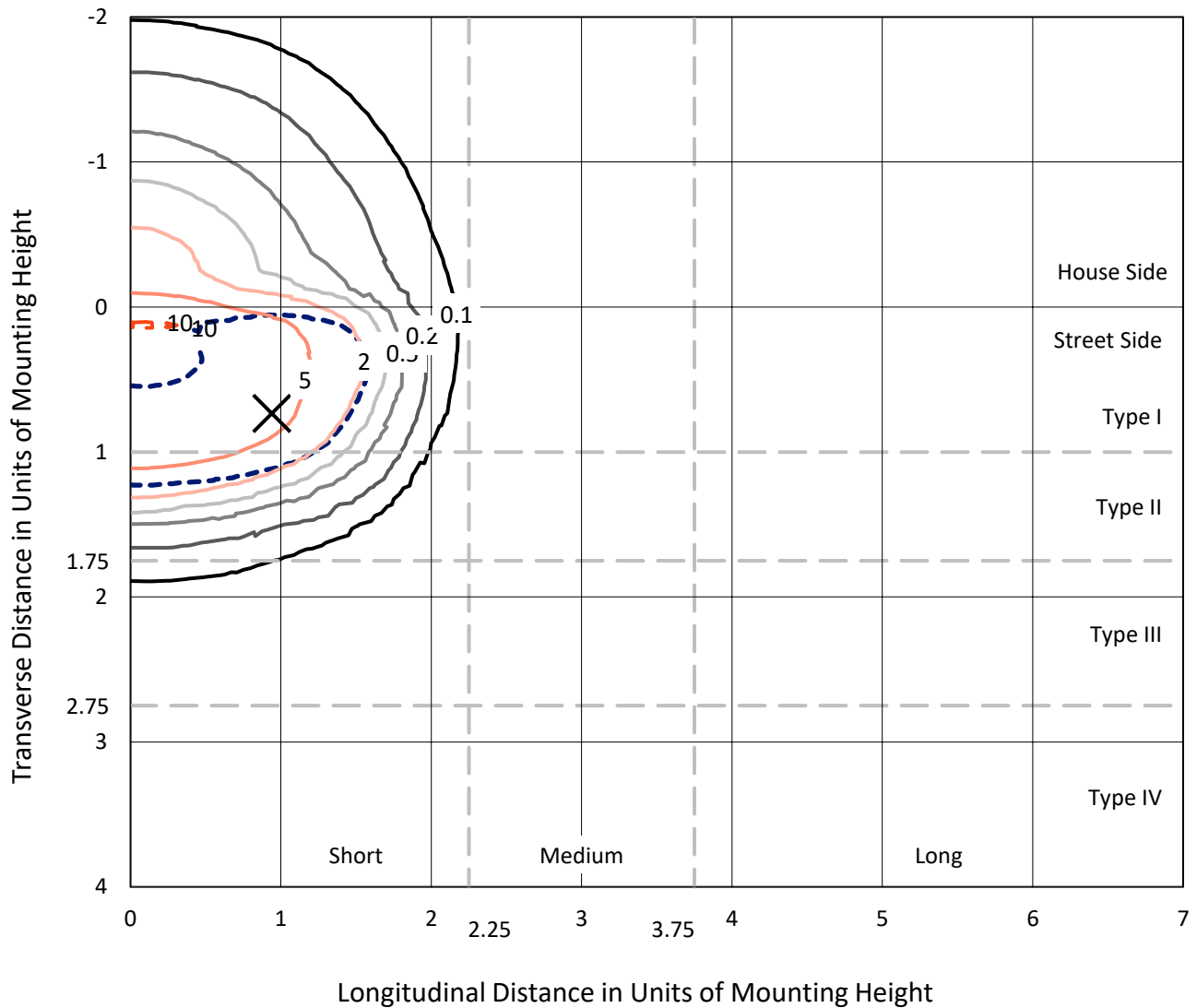
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

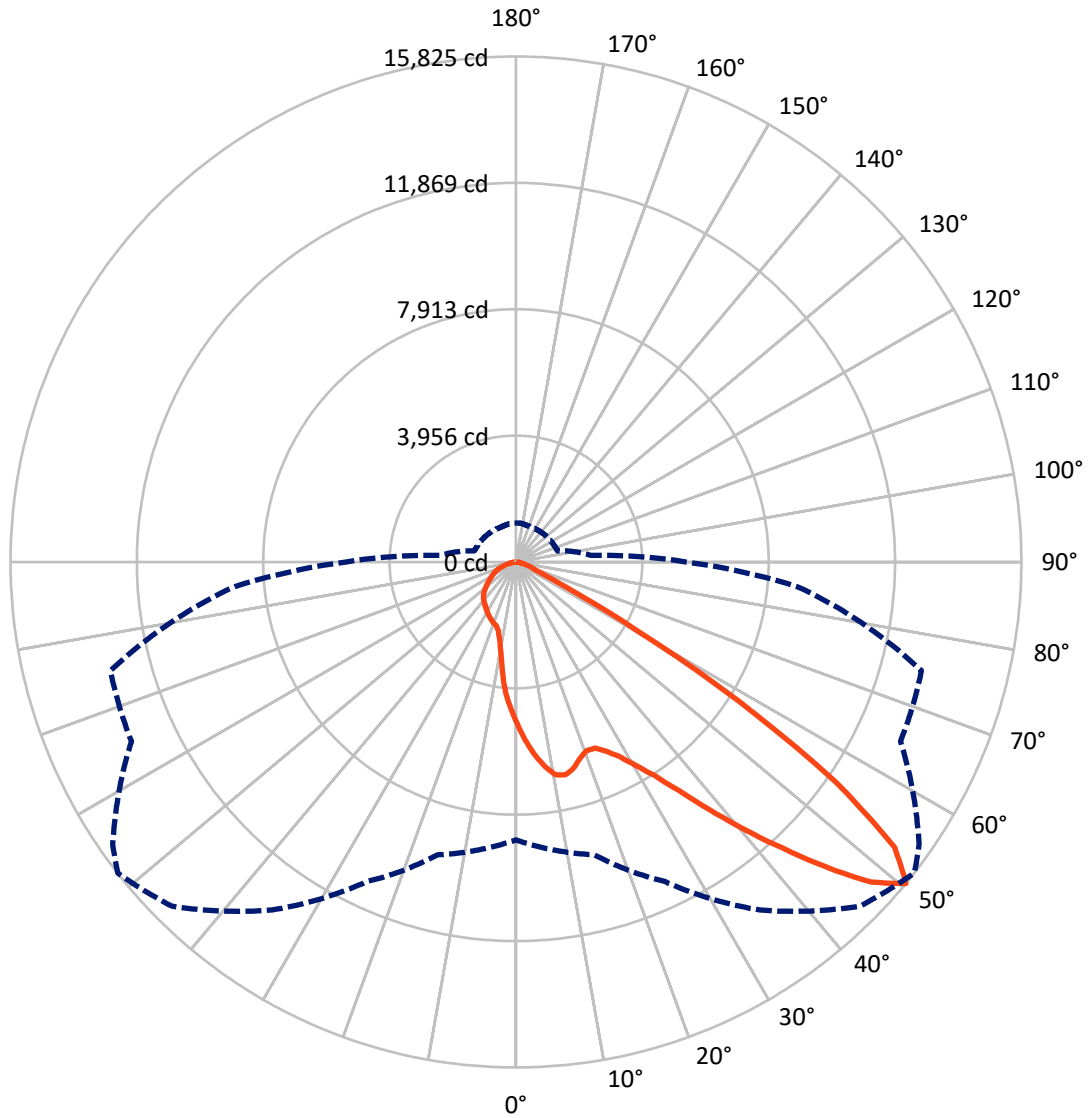
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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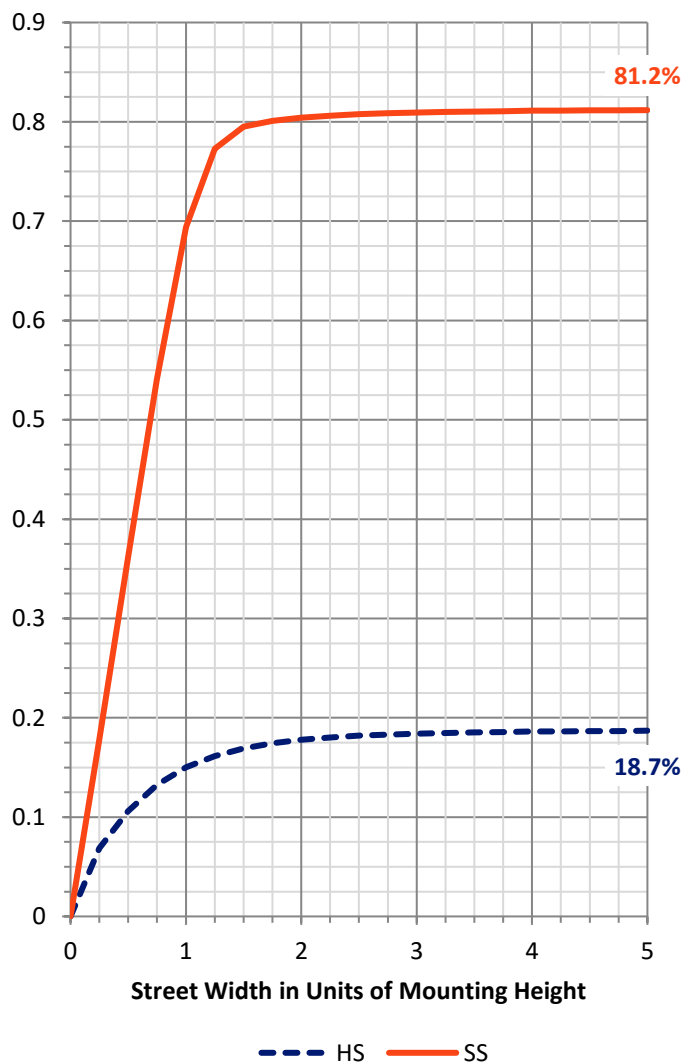
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3381.3	0.0	3381.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14606.7	0.0	14606.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	17988.0	0.0	17988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.3	2.6
10°-20°	1252.6	7.0
20°-30°	2110.0	11.7
30°-40°	3540.7	19.7
40°-50°	5416.4	30.1
50°-60°	3949.0	22.0
60°-70°	878.9	4.9
70°-80°	317.0	1.8
80°-90°	56.1	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°	17988.0	100.0
0°-180°	17988.0	100.0

Coefficient of Utilization



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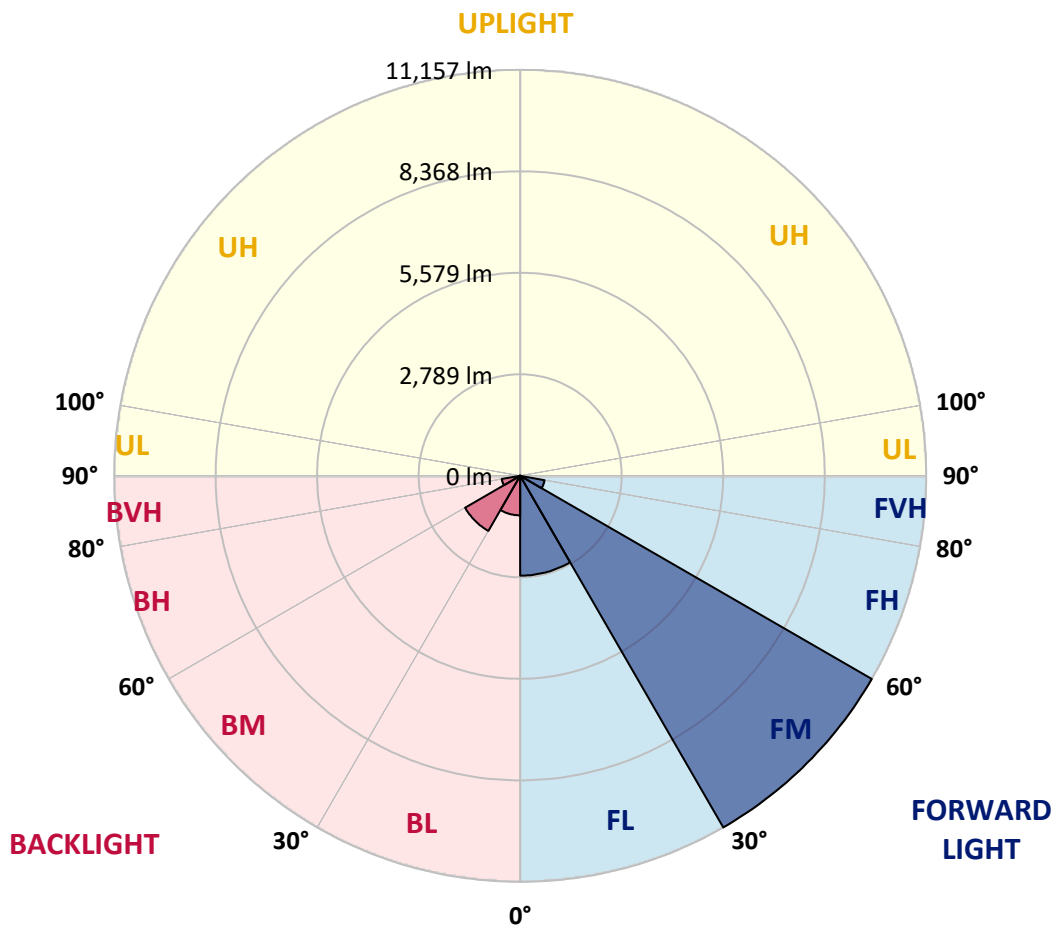
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2743.8	15.3			
FM (30°-60°)	11157.1	62.0			
FH (60°-80°)	680.7	3.8			G1/1800
FVH (80°-90°)	25.1	0.1			G1/100
BL (0°-30°)	1086.1	6.0	B3/2500		
BM (30°-60°)	1749.1	9.7	B2/2500		
BH (60°-80°)	515.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	31.0	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°	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5
2.5°	5970.2	5855.3	5868.3	5785.9	5697.0	5671.0	5580.0	5493.2	5428.2	5289.5	5161.6
5°	6525.1	6490.4	6438.4	6373.4	6306.2	6141.4	6048.2	5939.8	5701.4	5486.7	5274.3
7.5°	6605.3	6598.8	6627.0	6627.0	6650.9	6588.0	6455.8	6379.9	6126.2	5777.2	5382.7
10°	6041.7	6061.2	6197.8	6375.5	6622.7	6793.9	6772.3	6752.7	6475.3	5998.3	5510.6
12.5°	5593.0	5549.6	5629.8	5781.6	6152.3	6566.3	6846.0	6848.1	6776.6	6351.7	5603.8
15°	5339.3	5369.7	5391.4	5462.9	5742.5	6221.6	6713.7	6859.0	7173.3	6601.0	5751.2
17.5°	5501.9	5400.0	5395.7	5413.0	5556.1	5916.0	6468.8	6718.1	7390.1	6921.8	5933.3
20°	5714.4	5712.2	5651.5	5629.8	5627.6	5948.5	6308.3	6646.5	7505.0	7338.1	6117.6
22.5°	6087.2	6087.2	5987.5	5939.8	5837.9	6100.2	6330.0	6559.8	7695.7	7624.2	6206.5
25°	6711.6	6609.7	6438.4	6321.3	6262.8	6356.0	6559.8	6765.8	7862.7	7927.7	6390.7
27.5°	7288.2	7127.8	7043.2	6841.6	6763.6	6709.4	6895.8	7103.9	8057.8	8400.3	6490.4
30°	7942.9	7914.7	7762.9	7502.8	7309.9	7210.2	7381.4	7587.4	8415.5	8883.7	6720.2
32.5°	9113.5	8857.7	8651.7	8333.1	8018.7	7806.3	7975.4	8112.0	9009.4	9388.8	6971.7
35°	10377.3	10295.0	9939.4	9365.0	8883.7	8692.9	8792.7	8894.5	9701.0	10160.5	7394.4
37.5°	11619.5	11506.8	11214.1	10730.7	10145.4	9757.3	9828.9	9948.1	10477.0	11201.1	7910.4
40°	12512.6	12373.9	12226.5	12154.9	11574.0	11042.8	11001.7	11032.0	11526.3	12176.6	8482.7
42.5°	12577.7	12748.9	12794.4	13082.8	12946.2	12510.5	12256.8	12263.3	12527.8	13141.3	9061.5
45°	12441.1	12282.8	12618.9	13405.8	13856.7	14060.4	13633.4	13579.2	13147.8	13700.6	9349.8
47.5°	11008.2	11051.5	11619.5	12863.8	14166.7	15077.2	14977.4	14797.5	13479.5	13681.1	9304.3
50°	8701.6	8963.9	9490.7	11040.7	13299.5	15237.6	15825.0	15408.8	13282.2	13143.5	8840.3
52.5°	5794.6	5903.0	6249.8	8250.7	10693.8	13620.4	14849.5	14944.9	13100.1	12438.9	8252.9
55°	2579.7	2571.0	3058.8	4309.6	6709.4	10364.3	12133.3	12714.2	12399.9	11721.4	7680.6
57.5°	1092.6	1129.4	1328.9	1862.2	3299.4	6254.1	8220.4	8729.8	9536.2	9625.1	5892.1
60°	739.2	743.6	797.8	932.2	1380.9	2937.4	4311.8	4923.1	5499.7	5460.7	3126.0
62.5°	581.0	596.1	637.3	691.5	819.4	1333.2	1929.4	2269.7	2306.6	1940.2	1185.8
65°	496.4	498.6	539.8	585.3	641.7	776.1	930.0	947.3	958.2	923.5	871.5
67.5°	409.7	414.1	446.6	498.6	550.6	594.0	637.3	659.0	708.9	806.4	793.4
70°	325.2	331.7	359.9	403.2	450.9	476.9	531.1	550.6	596.1	672.0	702.4
72.5°	247.1	249.3	273.1	303.5	346.9	372.9	418.4	440.1	470.4	535.5	563.6
75°	177.8	184.3	201.6	216.8	223.3	240.6	284.0	307.8	351.2	379.4	381.5
77.5°	93.2	97.6	101.9	101.9	123.6	156.1	184.3	197.3	227.6	249.3	238.5
80°	36.9	39.0	49.9	67.2	86.7	112.7	132.2	138.7	164.8	177.8	184.3
82.5°	21.7	23.8	32.5	47.7	62.9	80.2	95.4	101.9	119.2	134.4	138.7
85°	10.8	13.0	19.5	30.3	41.2	49.9	47.7	45.5	45.5	43.4	45.5
87.5°	4.3	4.3	6.5	6.5	6.5	8.7	10.8	10.8	10.8	13.0	13.0
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°	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5	5070.5
2.5°	5077.0	4990.3	4910.1	4762.7	4602.3	4556.7	4370.3	4303.1	4255.4	4199.1	4181.7
5°	5103.0	4988.1	4730.2	4433.2	4196.9	3893.4	3694.0	3479.3	3323.3	3284.2	3273.4
7.5°	5157.2	4960.0	4515.6	4066.8	3583.4	3171.5	2857.2	2688.1	2538.5	2529.8	2514.7
10°	5217.9	4875.4	4281.4	3576.9	2959.1	2577.5	2388.9	2315.2	2278.4	2269.7	2265.4
12.5°	5267.8	4858.1	4019.1	3100.0	2516.8	2287.0	2230.7	2224.2	2239.4	2243.7	2252.4
15°	5289.5	4788.7	3702.6	2672.9	2241.5	2157.0	2180.8	2206.8	2217.7	2245.9	2224.2
17.5°	5330.7	4699.8	3312.4	2334.7	2087.6	2102.8	2144.0	2174.3	2191.7	2211.2	2183.0
20°	5352.3	4619.6	2946.1	2133.1	2033.4	2061.6	2118.0	2141.8	2163.5	2172.2	2139.6
22.5°	5332.8	4454.9	2623.1	1970.5	1981.4	2018.2	2068.1	2094.1	2081.1	2046.4	2026.9
25°	5280.8	4222.9	2287.0	1866.5	1907.7	1972.7	2011.7	1992.2	1968.4	1948.9	1942.4
27.5°	5278.6	3938.9	2044.2	1771.1	1844.8	1933.7	1920.7	1903.3	1914.2	1899.0	1881.7
30°	5289.5	3663.6	1844.8	1716.9	1799.3	1842.6	1857.8	1840.5	1853.5	1825.3	1834.0
32.5°	5233.1	3394.8	1714.7	1654.0	1745.1	1742.9	1792.8	1805.8	1775.4	1716.9	1725.6
35°	5257.0	3178.0	1604.2	1625.9	1684.4	1684.4	1723.4	1708.2	1628.0	1593.3	1602.0
37.5°	5421.7	2965.6	1550.0	1586.8	1625.9	1643.2	1630.2	1565.2	1545.7	1545.7	1550.0
40°	5577.8	2783.5	1517.5	1578.2	1571.7	1582.5	1487.1	1493.6	1493.6	1495.8	1485.0
42.5°	5716.5	2659.9	1491.5	1526.1	1537.0	1480.6	1422.1	1415.6	1430.8	1428.6	1419.9
45°	5766.4	2558.0	1454.6	1467.6	1476.3	1383.1	1354.9	1341.9	1359.2	1365.7	1374.4
47.5°	5575.6	2473.5	1413.4	1387.4	1370.1	1309.4	1272.5	1248.7	1270.3	1307.2	1315.9
50°	5330.7	2362.9	1348.4	1298.5	1261.7	1235.7	1209.6	1185.8	1201.0	1227.0	1220.5
52.5°	4968.6	2189.5	1266.0	1214.0	1151.1	1157.6	1133.8	1120.8	1129.4	1129.4	1122.9
55°	4452.7	1799.3	1127.3	1090.4	1038.4	1055.7	1060.1	1042.7	1025.4	1040.6	1027.5
57.5°	3039.3	1270.3	1005.9	1005.9	953.8	977.7	975.5	934.3	893.1	897.5	888.8
60°	1758.1	1012.4	927.8	919.2	865.0	884.5	888.8	860.6	797.8	802.1	793.4
62.5°	999.4	865.0	810.8	797.8	786.9	804.3	804.3	767.4	713.2	717.5	708.9
65°	849.8	802.1	724.1	721.9	717.5	721.9	704.5	665.5	617.8	598.3	600.5
67.5°	771.7	741.4	665.5	646.0	633.0	630.8	598.3	561.5	539.8	522.4	520.3
70°	676.4	652.5	596.1	570.1	557.1	526.8	494.3	470.4	440.1	431.4	440.1
72.5°	535.5	533.3	511.6	483.4	455.2	431.4	403.2	370.7	342.5	336.0	320.8
75°	370.7	375.0	379.4	375.0	351.2	320.8	288.3	262.3	227.6	208.1	203.8
77.5°	242.8	249.3	255.8	247.1	232.0	203.8	182.1	149.6	123.6	108.4	106.2
80°	177.8	186.4	190.8	184.3	166.9	145.2	121.4	95.4	75.9	62.9	62.9
82.5°	136.6	145.2	149.6	138.7	121.4	104.1	86.7	67.2	52.0	41.2	39.0
85°	47.7	45.5	54.2	56.4	67.2	62.9	52.0	39.0	30.3	21.7	19.5
87.5°	13.0	13.0	15.2	15.2	13.0	10.8	10.8	10.8	8.7	6.5	6.5
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)