

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: P319183

Luminaire Tested: **GLEON-SA9D-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50636 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

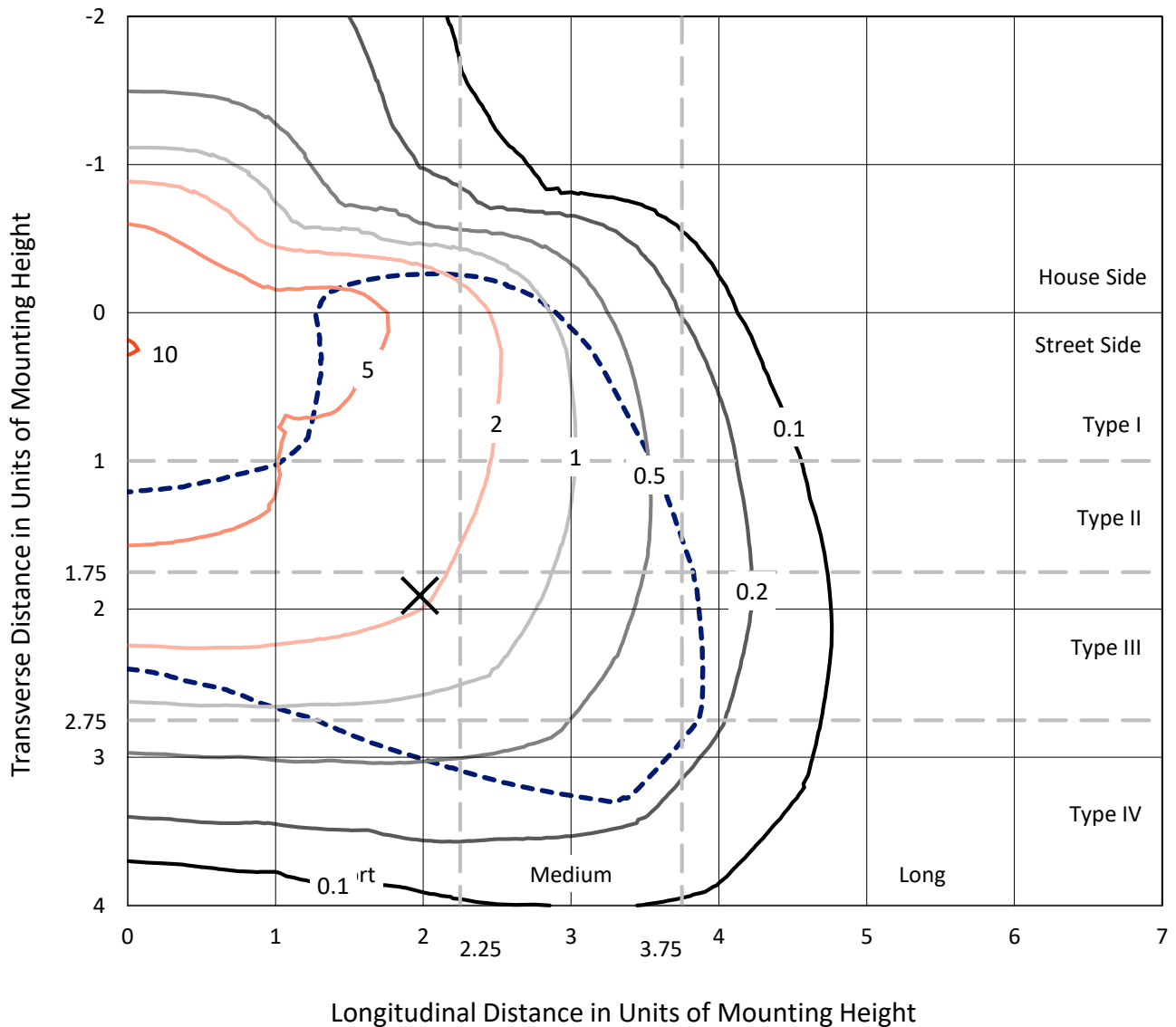
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

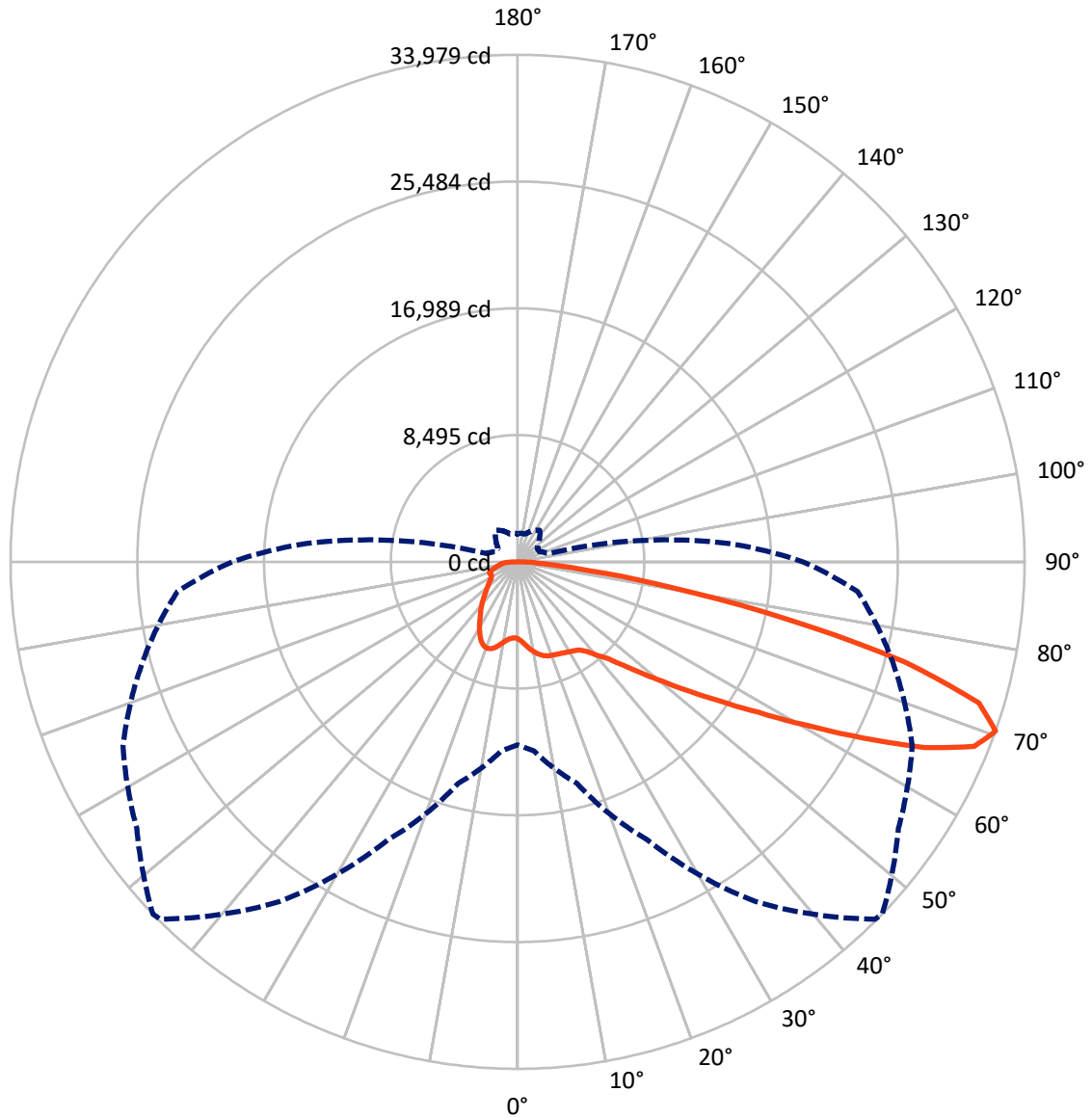
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11605.6	0.0	11605.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39030.4	0.0	39030.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	50636.0	0.0	50636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.9	1.0
10°-20°	1752.2	3.5
20°-30°	2921.5	5.8
30°-40°	4145.8	8.2
40°-50°	6098.3	12.0
50°-60°	10327.4	20.4
60°-70°	14659.5	29.0
70°-80°	8905.8	17.6
80°-90°	1299.7	2.6
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°	50636.0	100.0
0°-180°	50636.0	100.0

Coefficient of Utilization

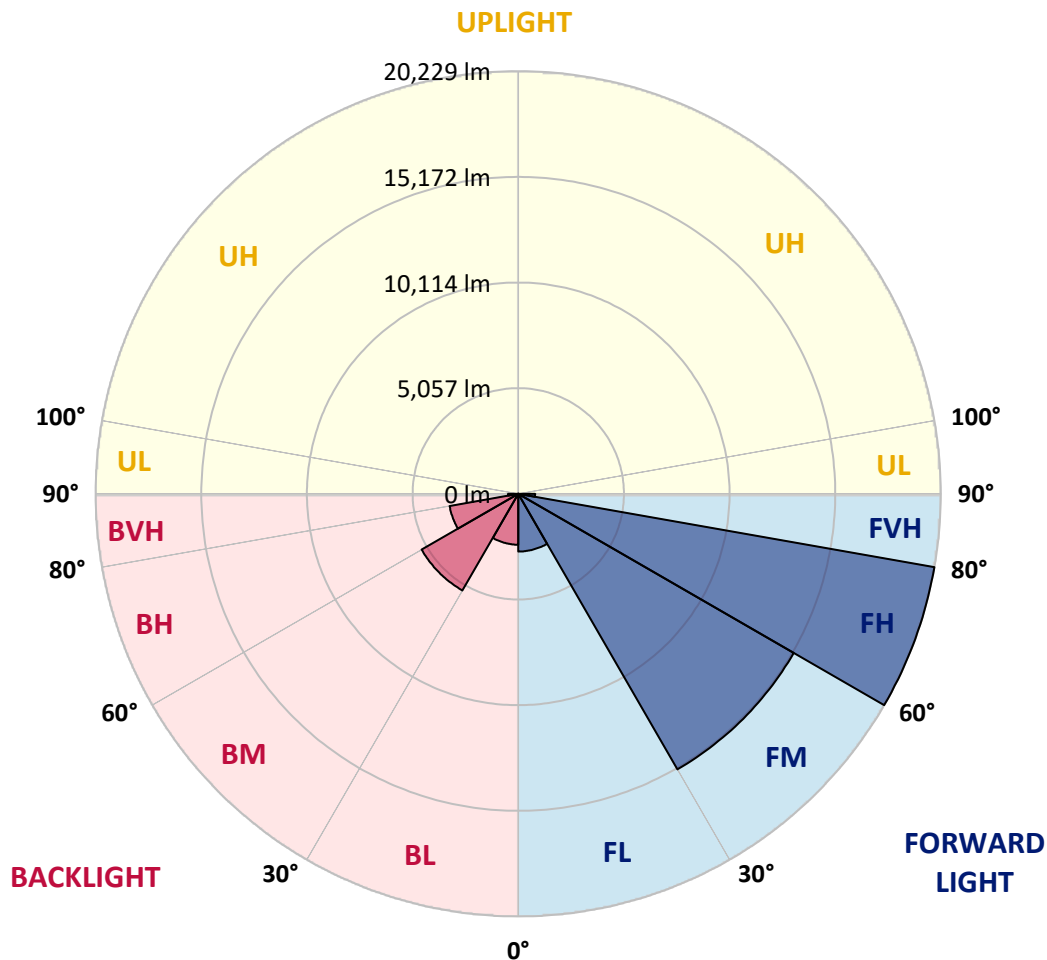


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2762.9	5.5			
FM (30°-60°)	15229.1	30.1			
FH (60°-80°)	20228.8	39.9			G5
FVH (80°-90°)	809.6	1.6			G5
BL (0°-30°)	2436.6	4.8	B3/2500		
BM (30°-60°)	5342.4	10.6	B4/8500		
BH (60°-80°)	3336.5	6.6	B4/5000		G4/5000
BVH (80°-90°)	490.1	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8
2.5°	5417.0	5420.5	5427.4	5410.1	5361.6	5347.7	5342.5	5292.2	5259.3	5210.8	5169.2
5°	5850.2	5853.7	5843.3	5794.8	5687.3	5607.6	5600.7	5486.3	5382.4	5271.5	5188.3
7.5°	6302.5	6307.7	6274.8	6183.0	6032.2	5893.6	5884.9	5728.9	5571.2	5403.2	5278.4
10°	6702.8	6682.0	6628.3	6500.1	6321.6	6151.8	6144.8	5981.9	5800.0	5597.2	5430.9
12.5°	6969.7	6952.4	6883.0	6727.1	6531.3	6375.3	6361.4	6210.7	6033.9	5812.1	5612.8
15°	7117.0	7129.1	7035.5	6858.8	6668.2	6536.5	6524.3	6416.9	6259.2	6035.7	5806.9
17.5°	7136.0	7146.4	7056.3	6881.3	6725.4	6635.2	6630.0	6559.0	6444.6	6229.7	5990.6
20°	7025.1	7032.1	6957.6	6813.7	6711.5	6683.8	6682.0	6650.8	6565.9	6375.3	6143.1
22.5°	6864.0	6869.2	6815.5	6711.5	6676.8	6720.2	6732.3	6720.2	6659.5	6481.0	6262.7
25°	6824.1	6820.7	6765.2	6659.5	6689.0	6780.8	6796.4	6801.6	6760.0	6604.0	6415.2
27.5°	7016.5	7004.3	6898.6	6728.8	6747.9	6858.8	6879.6	6929.8	6903.8	6766.9	6588.5
30°	7572.7	7551.9	7335.3	6992.2	6898.6	6955.8	6981.8	7061.5	7066.7	6952.4	6818.9
32.5°	8512.0	8486.0	8097.8	7484.4	7153.4	7054.6	7078.9	7198.4	7262.5	7174.2	7030.3
35°	9699.0	9669.5	9160.1	8321.3	7579.7	7243.5	7260.8	7356.1	7484.4	7359.6	7169.0
37.5°	10936.3	10865.2	10374.8	9305.6	8257.2	7647.2	7647.2	7659.4	7720.0	7460.1	7331.9
40°	12166.6	12095.6	11652.0	10463.2	9134.1	8283.2	8243.4	7974.8	7926.2	7702.7	7659.4
42.5°	13310.3	13289.5	13027.9	11771.5	10163.4	8908.8	8853.3	8397.6	8408.0	8269.4	8271.1
45°	14526.8	14526.8	14313.7	13092.0	11362.6	9913.9	9858.4	9187.8	9291.8	9227.6	9381.9
47.5°	15519.8	15551.0	15521.5	14467.9	12757.5	11191.0	11090.5	10283.0	10574.1	10794.2	11243.0
50°	16533.5	16582.0	16587.2	15977.3	14443.6	12709.0	12594.7	11736.9	12386.7	13017.5	13899.5
52.5°	18004.7	18113.9	17679.0	17483.1	16509.3	14511.2	14398.6	13606.7	14691.5	15577.0	17096.7
55°	19368.5	19273.2	18963.0	19084.3	18720.4	16563.0	16478.1	15783.2	17259.6	18410.2	20384.0
57.5°	20106.7	20099.8	20411.7	20931.6	21104.9	19093.0	19021.9	18346.1	20155.3	21020.0	23470.3
60°	20973.2	20985.3	21758.2	22938.3	23652.2	22243.4	22212.2	21699.3	22967.7	23456.4	25891.1
62.5°	21094.5	21312.8	22643.7	24674.6	26036.7	25924.1	25993.4	24719.7	25483.9	25400.7	27698.5
65°	19699.5	19987.2	22395.9	25199.7	28407.3	29949.6	30013.7	27757.5	27468.1	27062.6	28344.9
67.5°	16840.2	17266.5	19883.2	24057.7	29188.8	32924.9	33015.0	30112.5	29114.3	27625.8	26788.8
70°	12255.0	12728.1	15362.1	20546.9	27795.6	33876.3	33978.5	31153.9	29176.7	26022.8	22869.0
72.5°	7402.9	7773.8	9945.1	15126.4	23459.9	32143.4	32325.4	29833.5	26638.0	22042.4	16887.0
75°	3250.9	3493.5	4808.8	8716.4	16795.2	26594.7	26821.7	25535.9	21643.8	16018.8	9981.5
77.5°	1384.6	1453.9	1972.0	3786.4	9494.5	18172.8	18484.8	18658.0	14684.5	8716.4	4217.9
80°	863.0	890.7	1116.0	1713.8	4443.1	10206.7	10542.9	10977.9	7292.0	3204.1	1473.0
82.5°	525.1	556.3	741.7	1036.3	2313.4	4626.8	4788.0	5094.7	2829.8	1384.6	762.5
85°	315.4	337.9	454.0	655.0	1317.0	1819.5	1817.8	2010.2	1332.6	890.7	402.0
87.5°	150.8	168.1	242.6	339.6	663.7	682.8	639.4	724.3	809.3	584.0	202.7
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°	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8	5158.8
2.5°	5155.4	5148.4	5125.9	5108.6	5105.1	5094.7	5086.0	5091.2	5098.2	5099.9	5099.9
5°	5153.6	5134.6	5105.1	5093.0	5108.6	5129.4	5155.4	5190.0	5210.8	5226.4	5236.8
7.5°	5236.8	5200.4	5167.5	5160.6	5191.7	5247.2	5306.1	5378.9	5429.1	5463.8	5470.7
10°	5375.4	5330.4	5297.4	5304.4	5359.8	5439.5	5522.7	5616.3	5692.5	5739.3	5742.8
12.5°	5534.9	5491.5	5460.3	5489.8	5581.6	5678.7	5765.3	5846.8	5916.1	5962.9	5962.9
15°	5718.5	5687.3	5651.0	5718.5	5843.3	5930.0	5966.3	6006.2	6044.3	6079.0	6072.1
17.5°	5895.3	5865.8	5846.8	5926.5	6056.5	6096.3	6072.1	6042.6	6042.6	6061.7	6065.1
20°	6047.8	6021.8	6033.9	6111.9	6179.5	6137.9	6047.8	5954.2	5916.1	5926.5	5936.9
22.5°	6181.2	6169.1	6205.5	6241.9	6193.4	6047.8	5881.4	5754.9	5708.1	5704.7	5708.1
25°	6337.2	6335.5	6380.5	6314.7	6099.8	5831.2	5607.6	5484.6	5458.6	5479.4	5514.1
27.5°	6531.3	6550.3	6572.9	6332.0	5909.2	5503.7	5276.7	5191.7	5217.7	5268.0	5300.9
30°	6779.1	6831.1	6782.5	6288.7	5635.4	5129.4	4912.7	4888.5	4959.5	5030.6	5065.2
32.5°	7019.9	7101.4	6983.6	6176.0	5281.9	4732.5	4564.4	4557.5	4644.1	4713.5	4762.0
35°	7214.0	7375.2	7134.3	5952.5	4872.9	4366.9	4243.9	4197.1	4228.3	4309.7	4365.2
37.5°	7467.0	7735.6	7238.3	5611.1	4429.3	4065.4	3921.5	3814.1	3786.4	3819.3	3847.0
40°	7929.7	8285.0	7286.8	5134.6	3996.0	3763.8	3618.3	3460.6	3351.4	3271.7	3273.4
42.5°	8685.3	9000.6	7255.6	4555.8	3595.7	3469.2	3304.6	3122.7	2945.9	2765.7	2751.8
45°	9912.1	10064.6	7162.0	3942.3	3244.0	3160.8	3006.6	2824.6	2588.9	2384.5	2365.4
47.5°	11875.5	11537.6	7016.5	3406.9	2933.8	2899.1	2757.0	2547.4	2297.8	2133.2	2119.3
50°	14552.8	13663.8	6945.4	2980.6	2660.0	2670.4	2554.3	2332.5	2096.8	1975.5	1961.6
52.5°	17755.2	16140.1	7082.3	2651.3	2439.9	2476.3	2389.7	2181.7	1984.2	1888.9	1875.0
55°	21077.2	18704.8	7229.6	2412.2	2232.0	2303.0	2273.6	2102.0	1923.5	1835.1	1823.0
57.5°	23920.8	20619.7	6935.0	2218.1	2046.5	2157.4	2183.4	2051.7	1892.3	1812.6	1798.7
60°	25710.9	21390.8	6162.2	2036.1	1899.2	2041.3	2131.5	2037.9	1904.4	1897.5	1887.1
62.5°	26560.0	21323.2	5002.9	1892.3	1807.4	1991.1	2169.6	2115.9	2043.1	2105.5	2110.7
65°	26178.8	20304.3	3725.7	1797.0	1741.6	2010.2	2284.0	2263.2	2082.9	2145.3	2154.0
67.5°	23669.6	17873.0	2758.8	1713.8	1668.8	2063.9	2491.9	2311.7	2005.0	2050.0	2022.3
70°	19131.1	14169.9	2128.0	1620.3	1594.3	2056.9	2585.5	2282.2	1920.0	1930.4	1855.9
72.5°	13192.5	9662.6	1731.2	1533.6	1486.8	1875.0	2519.6	2209.4	1849.0	1769.3	1670.5
75°	7174.2	5186.5	1471.2	1443.5	1297.9	1646.2	2398.3	2157.4	1784.9	1679.2	1623.7
77.5°	2822.9	2152.3	1277.1	1320.5	1135.0	1453.9	2263.2	2058.7	1696.5	1557.9	1530.1
80°	1152.4	1098.7	1058.8	1142.0	975.6	1271.9	2100.3	1942.6	1590.8	1445.2	1389.8
82.5°	653.3	682.8	823.1	901.1	791.9	1171.4	2022.3	1849.0	1464.3	1294.5	1228.6
85°	334.4	400.3	573.6	646.4	582.3	996.4	1862.9	1618.5	1174.9	991.2	996.4
87.5°	161.2	223.5	362.2	405.5	377.8	720.9	1391.5	1173.2	915.0	724.3	701.8
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)