

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: P531816

Luminaire Tested: **GALN-SA7A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531816
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-SA7A-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21129 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

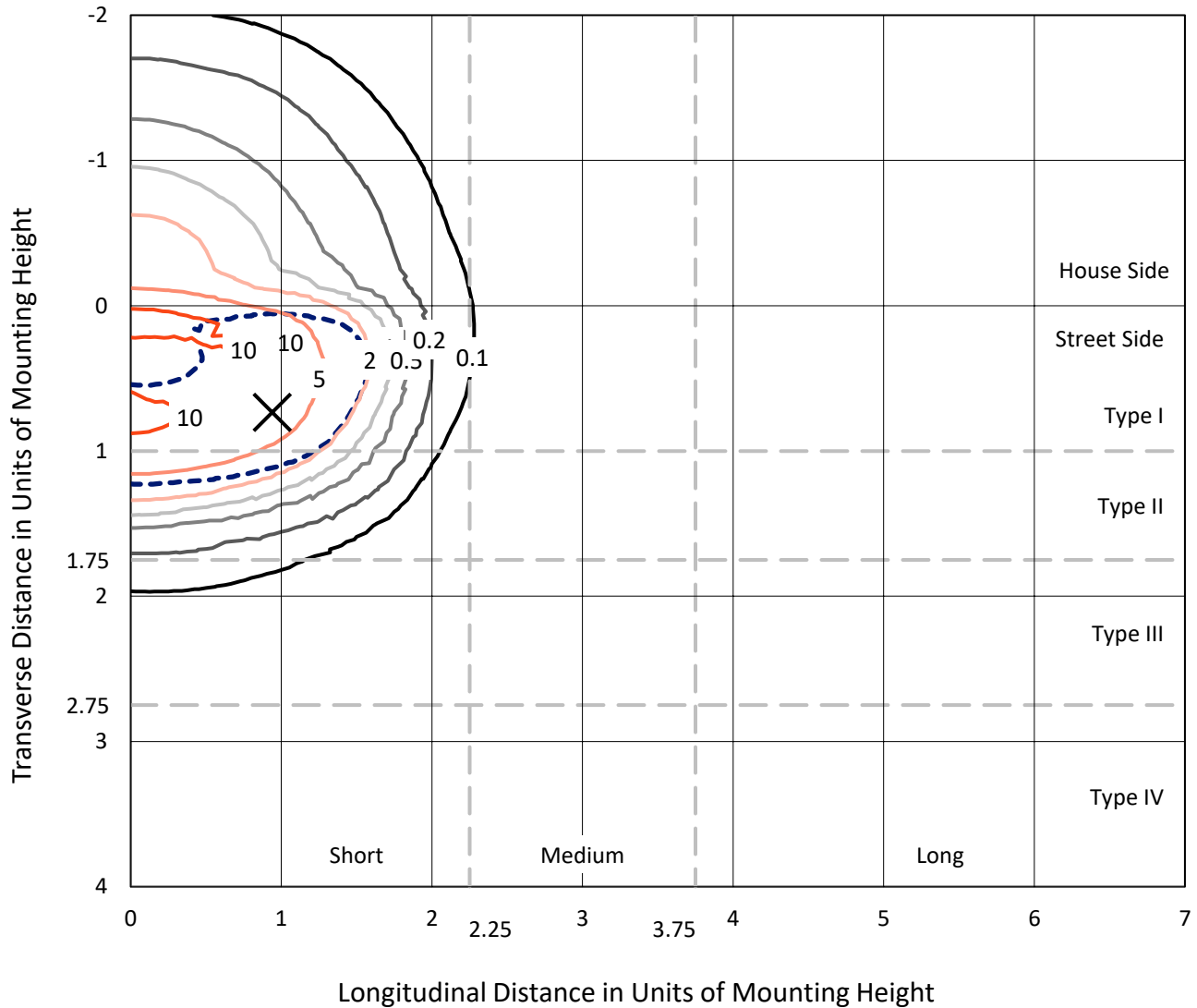
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

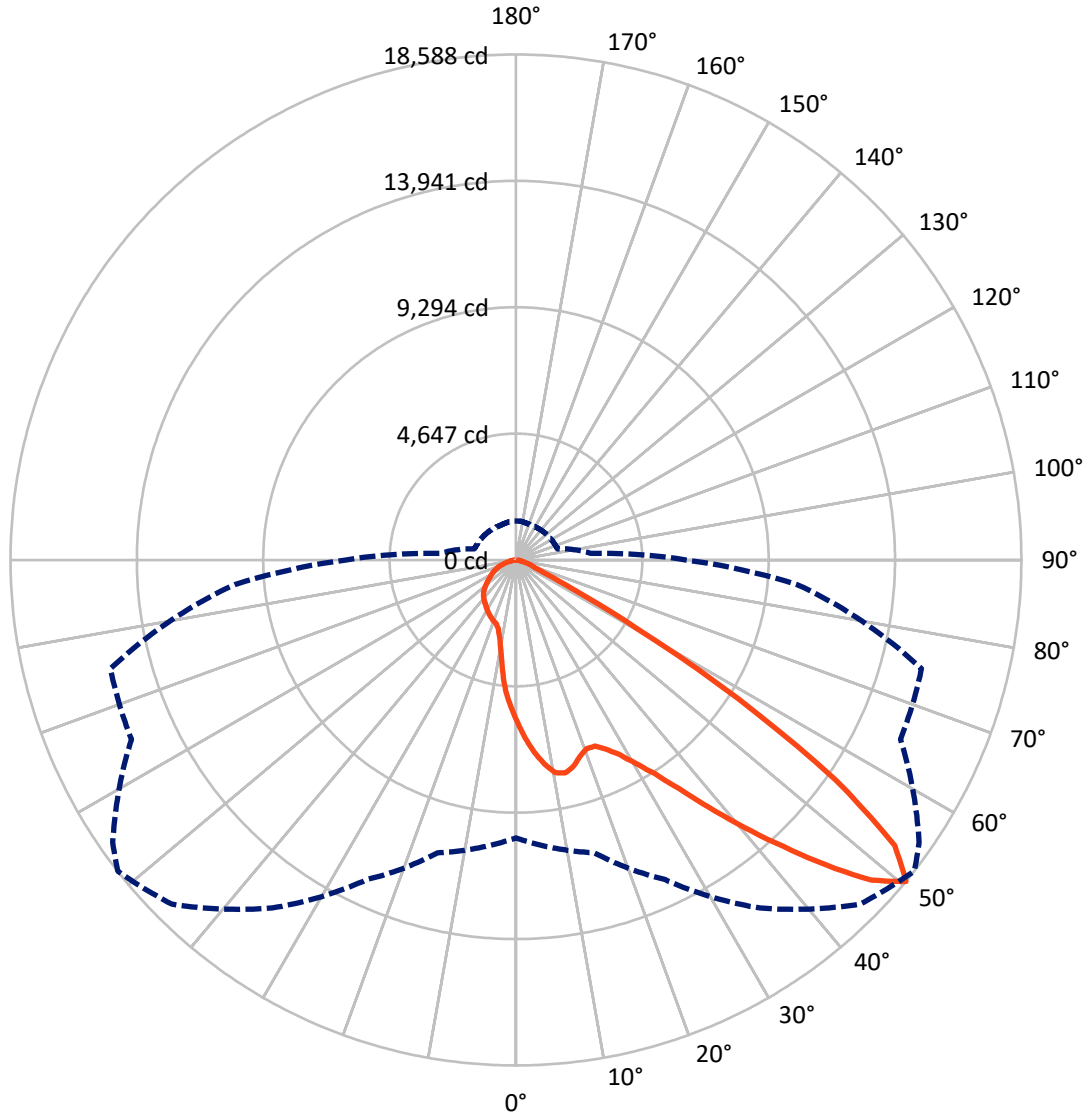
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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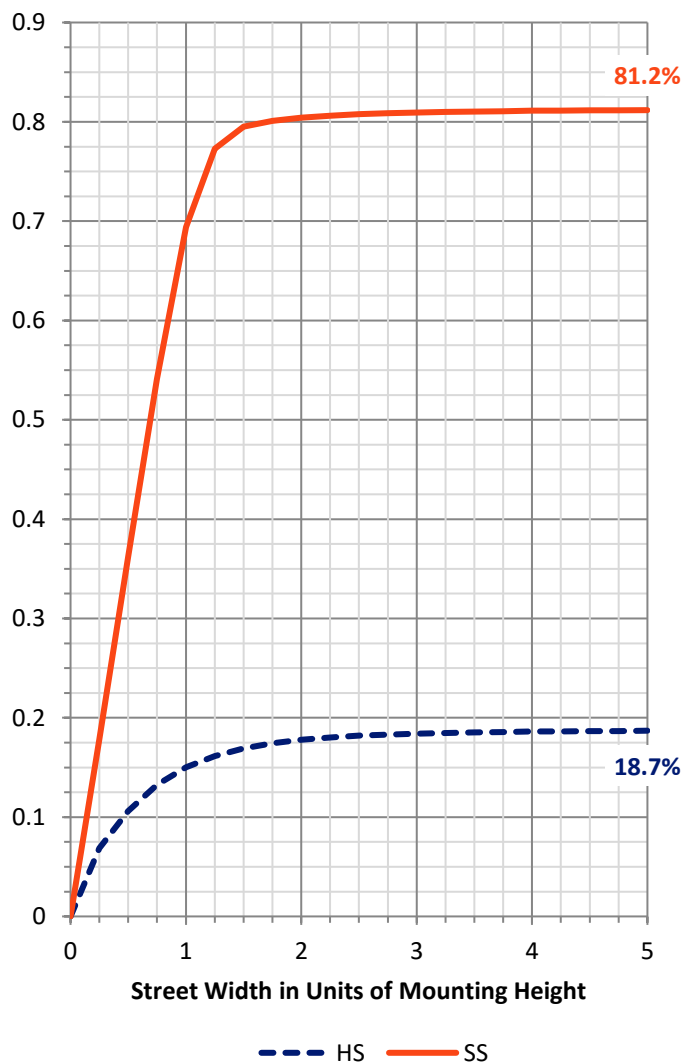
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3971.7	0.0	3971.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17157.2	0.0	17157.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	21129.0	0.0	21129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.0	2.6
10°-20°	1471.3	7.0
20°-30°	2478.4	11.7
30°-40°	4159.0	19.7
40°-50°	6362.2	30.1
50°-60°	4638.6	22.0
60°-70°	1032.3	4.9
70°-80°	372.3	1.8
80°-90°	65.9	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°	21129.0	100.0
0°-180°	21129.0	100.0

Coefficient of Utilization

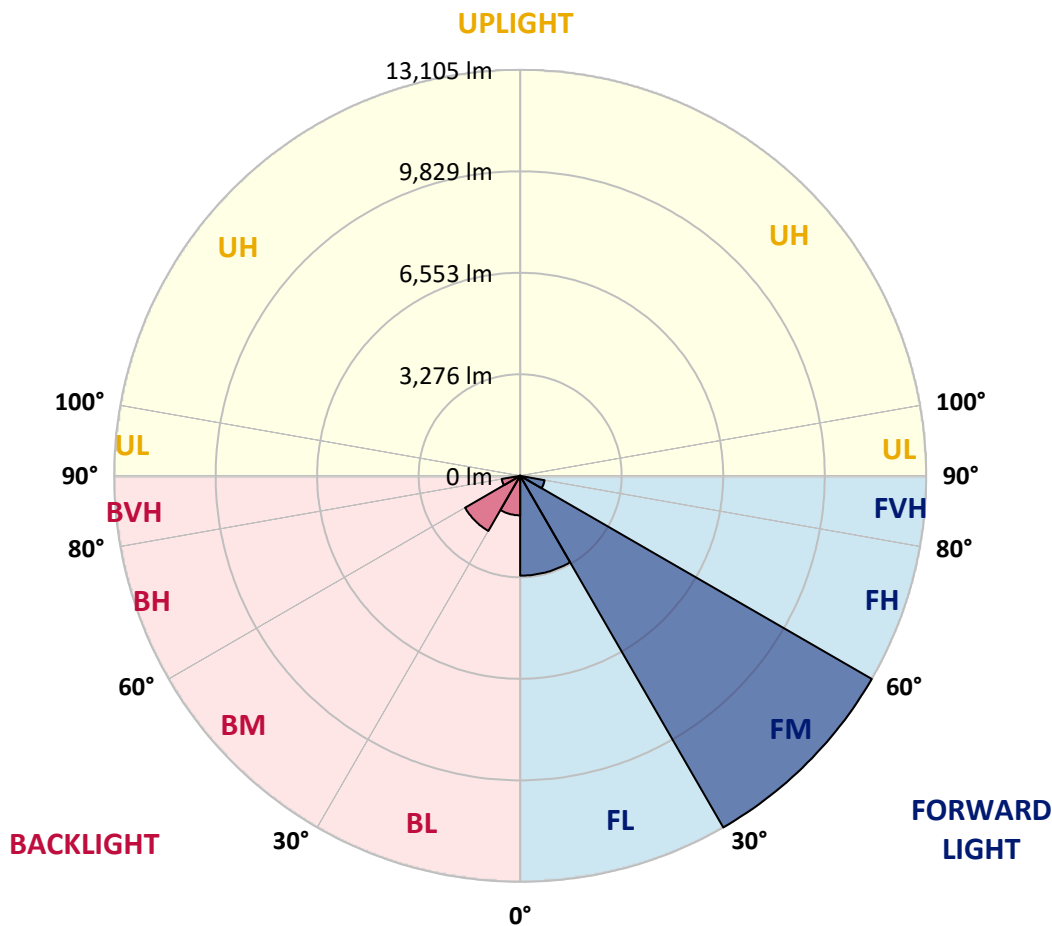


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3222.9	15.3			
FM (30°-60°)	13105.3	62.0			
FH (60°-80°)	799.5	3.8			G1/1800
FVH (80°-90°)	29.5	0.1			G1/100
BL (0°-30°)	1275.8	6.0	B3/2500		
BM (30°-60°)	2054.5	9.7	B2/2500		
BH (60°-80°)	605.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	36.4	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°	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9
2.5°	7012.7	6877.7	6893.0	6796.2	6691.8	6661.3	6554.3	6452.5	6376.1	6213.1	6062.9
5°	7664.5	7623.8	7562.7	7486.3	7407.3	7213.8	7104.3	6977.0	6696.9	6444.8	6195.3
7.5°	7758.7	7751.1	7784.2	7784.2	7812.2	7738.4	7583.0	7493.9	7196.0	6786.0	6322.6
10°	7096.7	7119.6	7280.0	7488.8	7779.1	7980.3	7954.8	7931.9	7606.0	7045.8	6472.8
12.5°	6569.6	6518.7	6612.9	6791.1	7226.5	7712.9	8041.4	8043.9	7959.9	7460.8	6582.3
15°	6271.7	6307.3	6332.8	6416.8	6745.3	7308.0	7886.0	8056.7	8425.9	7753.6	6755.5
17.5°	6462.6	6343.0	6337.9	6358.2	6526.3	6949.0	7598.3	7891.1	8680.5	8130.5	6969.4
20°	6712.2	6709.6	6638.3	6612.9	6610.3	6987.2	7409.9	7807.1	8815.5	8619.4	7185.8
22.5°	7150.2	7150.2	7033.0	6977.0	6857.3	7165.4	7435.3	7705.3	9039.5	8955.5	7290.2
25°	7883.5	7763.8	7562.7	7425.2	7356.4	7465.9	7705.3	7947.2	9235.6	9312.0	7506.6
27.5°	8560.8	8372.4	8273.1	8036.3	7944.6	7881.0	8099.9	8344.4	9464.8	9867.1	7623.8
30°	9329.8	9296.7	9118.5	8812.9	8586.3	8469.2	8670.3	8912.2	9884.9	10434.9	7893.7
32.5°	10704.9	10404.4	10162.5	9788.2	9419.0	9169.4	9368.0	9528.4	10582.6	11028.2	8189.1
35°	12189.4	12092.6	11675.0	11000.2	10434.9	10210.9	10328.0	10447.7	11394.9	11934.7	8685.6
37.5°	13648.4	13516.0	13172.3	12604.4	11916.9	11461.1	11545.2	11685.2	12306.5	13157.0	9291.6
40°	14697.5	14534.6	14361.4	14277.4	13595.0	12971.1	12922.7	12958.4	13538.9	14302.9	9963.9
42.5°	14773.9	14975.1	15028.6	15367.2	15206.8	14695.0	14397.1	14404.7	14715.4	15436.0	10643.7
45°	14613.5	14427.6	14822.3	15746.6	16276.3	16515.6	16014.0	15950.3	15443.6	16092.9	10982.4
47.5°	12930.4	12981.3	13648.4	15110.0	16640.4	17709.9	17592.7	17381.4	15833.2	16070.0	10928.9
50°	10221.1	10529.2	11147.9	12968.6	15621.9	17898.3	18588.4	18099.5	15601.5	15438.5	10384.0
52.5°	6806.4	6933.7	7341.1	9691.4	12561.1	15998.7	17442.5	17554.5	15387.6	14611.0	9694.0
55°	3030.2	3020.0	3592.9	5062.1	7881.0	12174.1	14251.9	14934.3	14565.1	13768.1	9021.7
57.5°	1283.4	1326.6	1560.9	2187.3	3875.5	7346.2	9655.8	10254.2	11201.4	11305.8	6921.0
60°	868.3	873.4	937.1	1094.9	1622.0	3450.3	5064.7	5782.8	6460.1	6414.3	3671.8
62.5°	682.4	700.2	748.6	812.3	962.5	1566.0	2266.3	2666.0	2709.3	2279.0	1392.9
65°	583.1	585.7	634.0	687.5	753.7	911.6	1092.4	1112.8	1125.5	1084.7	1023.6
67.5°	481.3	486.4	524.5	585.7	646.8	697.7	748.6	774.1	832.7	947.2	932.0
70°	382.0	389.6	422.7	473.6	529.6	560.2	623.9	646.8	700.2	789.4	825.0
72.5°	290.3	292.8	320.8	356.5	407.4	438.0	491.4	516.9	552.6	628.9	662.1
75°	208.8	216.4	236.8	254.6	262.3	282.6	333.6	361.6	412.5	445.6	448.2
77.5°	109.5	114.6	119.7	119.7	145.1	183.3	216.4	231.7	267.4	292.8	280.1
80°	43.3	45.8	58.6	78.9	101.9	132.4	155.3	163.0	193.5	208.8	216.4
82.5°	25.5	28.0	38.2	56.0	73.8	94.2	112.0	119.7	140.0	157.9	163.0
85°	12.7	15.3	22.9	35.6	48.4	58.6	56.0	53.5	53.5	50.9	53.5
87.5°	5.1	5.1	7.6	7.6	7.6	10.2	12.7	12.7	12.7	15.3	15.3
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°	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9	5955.9
2.5°	5963.6	5861.7	5767.5	5594.3	5405.9	5352.4	5133.4	5054.5	4998.5	4932.3	4911.9
5°	5994.1	5859.2	5556.1	5207.3	4929.7	4573.2	4339.0	4086.9	3903.6	3857.7	3845.0
7.5°	6057.8	5826.1	5304.0	4777.0	4209.1	3725.3	3356.1	3157.5	2981.8	2971.6	2953.8
10°	6129.1	5726.7	5029.0	4201.5	3475.8	3027.6	2806.1	2719.5	2676.2	2666.0	2660.9
12.5°	6187.6	5706.4	4720.9	3641.3	2956.3	2686.4	2620.2	2612.6	2630.4	2635.5	2645.7
15°	6213.1	5624.9	4349.2	3139.7	2632.9	2533.6	2561.6	2592.2	2604.9	2638.0	2612.6
17.5°	6261.5	5520.5	3890.8	2742.4	2452.1	2470.0	2518.3	2554.0	2574.4	2597.3	2564.2
20°	6286.9	5426.3	3460.5	2505.6	2388.5	2421.6	2487.8	2515.8	2541.3	2551.4	2513.2
22.5°	6264.0	5232.8	3081.1	2314.6	2327.4	2370.7	2429.2	2459.8	2444.5	2403.8	2380.8
25°	6202.9	4960.3	2686.4	2192.4	2240.8	2317.2	2363.0	2340.1	2312.1	2289.2	2281.5
27.5°	6200.4	4626.7	2401.2	2080.4	2166.9	2271.3	2256.1	2235.7	2248.4	2230.6	2210.2
30°	6213.1	4303.3	2166.9	2016.7	2113.5	2164.4	2182.2	2161.9	2177.1	2144.0	2154.2
32.5°	6146.9	3987.6	2014.2	1942.9	2049.8	2047.3	2105.8	2121.1	2085.5	2016.7	2026.9
35°	6174.9	3733.0	1884.3	1909.8	1978.5	1978.5	2024.3	2006.5	1912.3	1871.6	1881.8
37.5°	6368.4	3483.4	1820.6	1863.9	1909.8	1930.1	1914.9	1838.5	1815.5	1815.5	1820.6
40°	6551.8	3269.5	1782.4	1853.7	1846.1	1858.8	1746.8	1754.4	1754.4	1757.0	1744.3
42.5°	6714.7	3124.4	1751.9	1792.6	1805.4	1739.2	1670.4	1662.8	1680.6	1678.0	1667.9
45°	6773.3	3004.7	1708.6	1723.9	1734.1	1624.6	1591.5	1576.2	1596.6	1604.2	1614.4
47.5°	6549.2	2905.4	1660.2	1629.7	1609.3	1538.0	1494.7	1466.7	1492.2	1535.4	1545.6
50°	6261.5	2775.5	1583.8	1525.3	1482.0	1451.4	1420.9	1392.9	1410.7	1441.2	1433.6
52.5°	5836.2	2571.8	1487.1	1426.0	1352.1	1359.8	1331.7	1316.5	1326.6	1326.6	1319.0
55°	5230.2	2113.5	1324.1	1280.8	1219.7	1240.1	1245.2	1224.8	1204.4	1222.2	1207.0
57.5°	3570.0	1492.2	1181.5	1181.5	1120.4	1148.4	1145.9	1097.5	1049.1	1054.2	1044.0
60°	2065.1	1189.1	1089.8	1079.7	1016.0	1038.9	1044.0	1010.9	937.1	942.1	932.0
62.5°	1173.9	1016.0	952.3	937.1	924.3	944.7	944.7	901.4	837.7	842.8	832.7
65°	998.2	942.1	850.5	847.9	842.8	847.9	827.6	781.7	725.7	702.8	705.3
67.5°	906.5	870.9	781.7	758.8	743.5	741.0	702.8	659.5	634.0	613.7	611.1
70°	794.5	766.5	700.2	669.7	654.4	618.8	580.6	552.6	516.9	506.7	516.9
72.5°	628.9	626.4	600.9	567.8	534.7	506.7	473.6	435.4	402.3	394.7	376.9
75°	435.4	440.5	445.6	440.5	412.5	376.9	338.7	308.1	267.4	244.4	239.4
77.5°	285.2	292.8	300.5	290.3	272.5	239.4	213.9	175.7	145.1	127.3	124.8
80°	208.8	219.0	224.1	216.4	196.1	170.6	142.6	112.0	89.1	73.8	73.8
82.5°	160.4	170.6	175.7	163.0	142.6	122.2	101.9	78.9	61.1	48.4	45.8
85°	56.0	53.5	63.7	66.2	78.9	73.8	61.1	45.8	35.6	25.5	22.9
87.5°	15.3	15.3	17.8	17.8	15.3	12.7	12.7	12.7	10.2	7.6	7.6
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)