

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: P530026

Luminaire Tested: **GALN-SA5B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20199 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

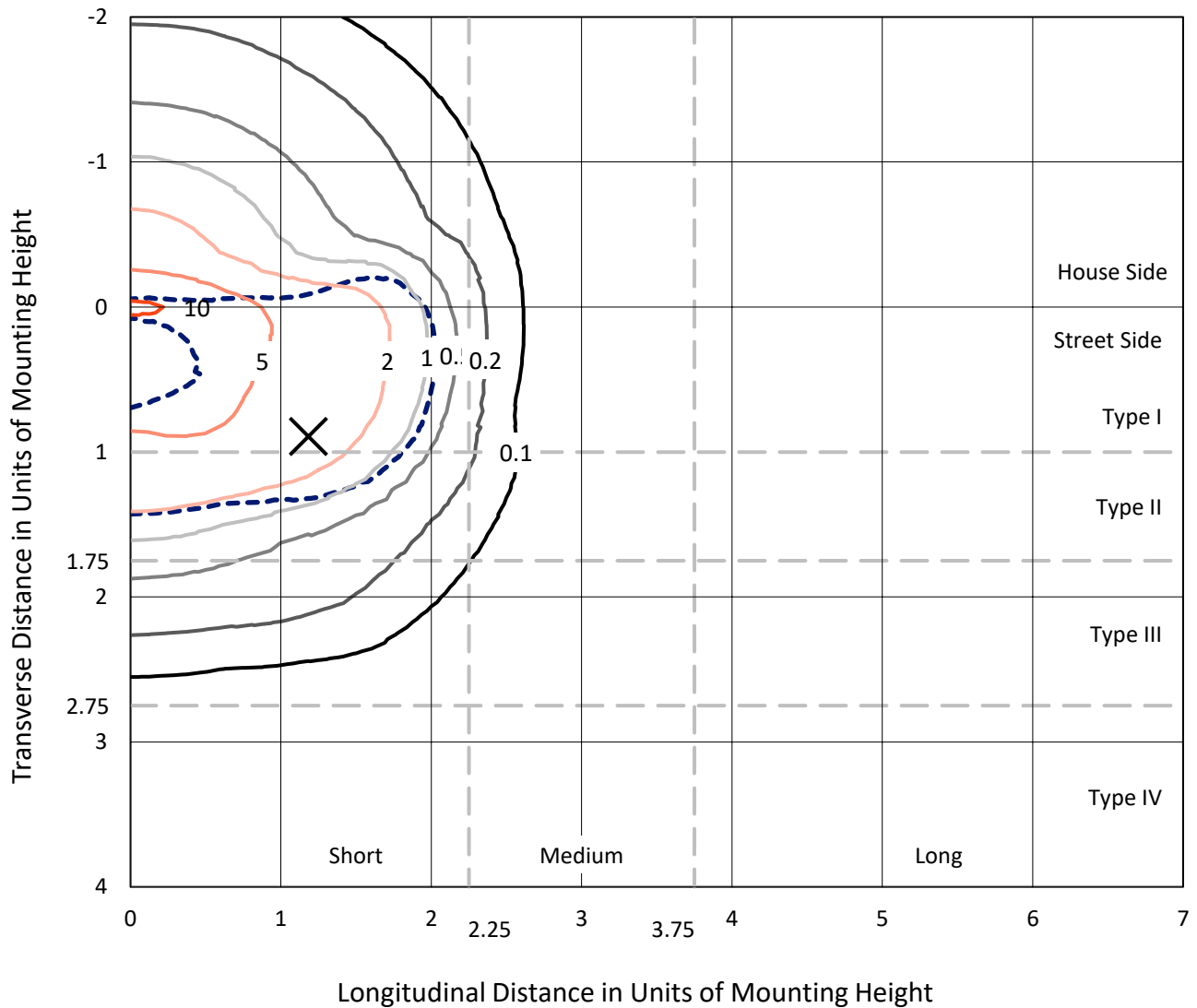
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

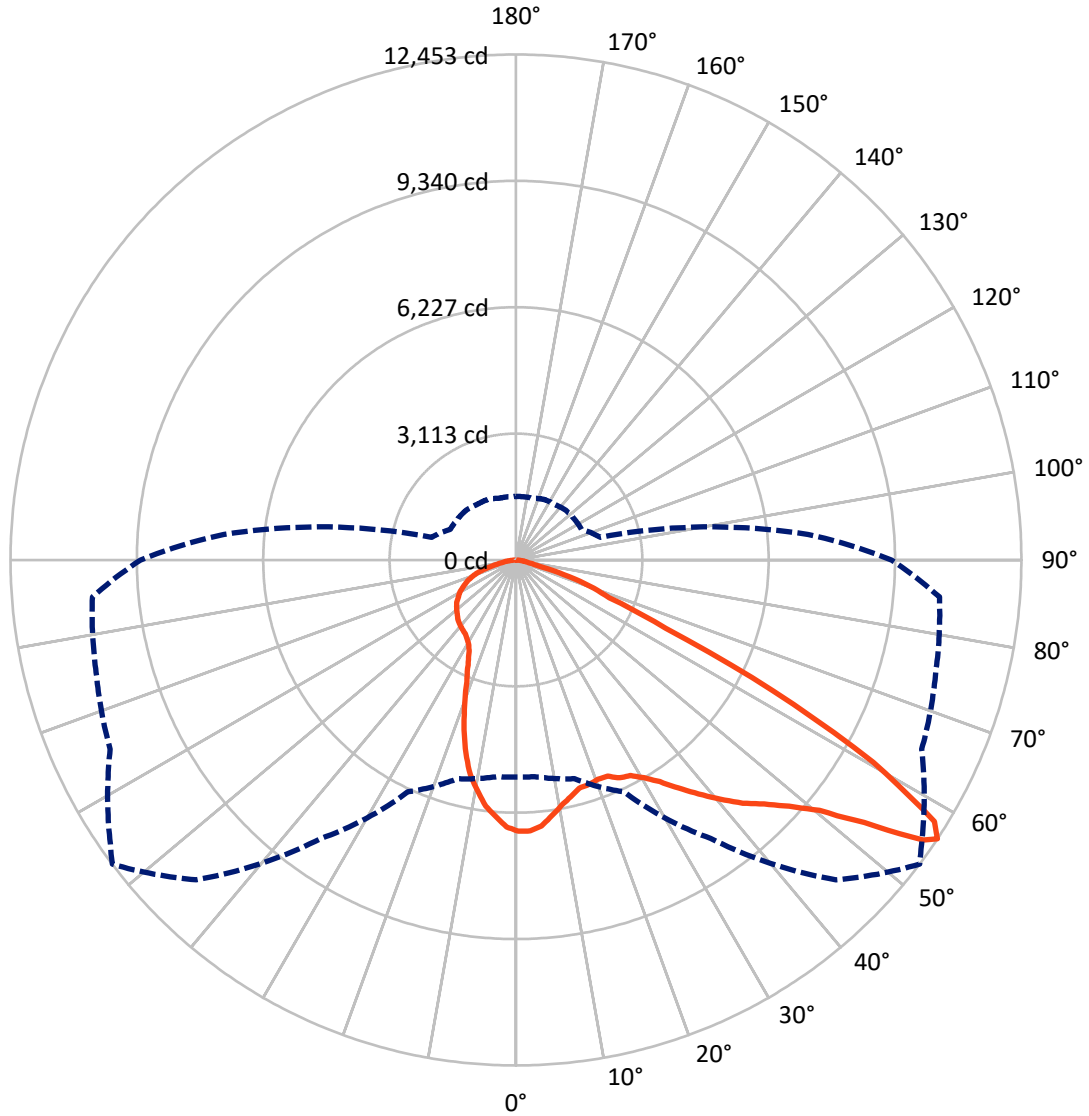
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5894.5	0.0	5894.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	14304.5	0.0	14304.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	20199.0	0.0	20199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.6	2.9
10°-20°	1477.6	7.3
20°-30°	2178.8	10.8
30°-40°	3113.1	15.4
40°-50°	4284.7	21.2
50°-60°	5063.4	25.1
60°-70°	2698.5	13.4
70°-80°	684.6	3.4
80°-90°	106.7	0.5
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°	20199.0	100.0
0°-180°	20199.0	100.0

Coefficient of Utilization



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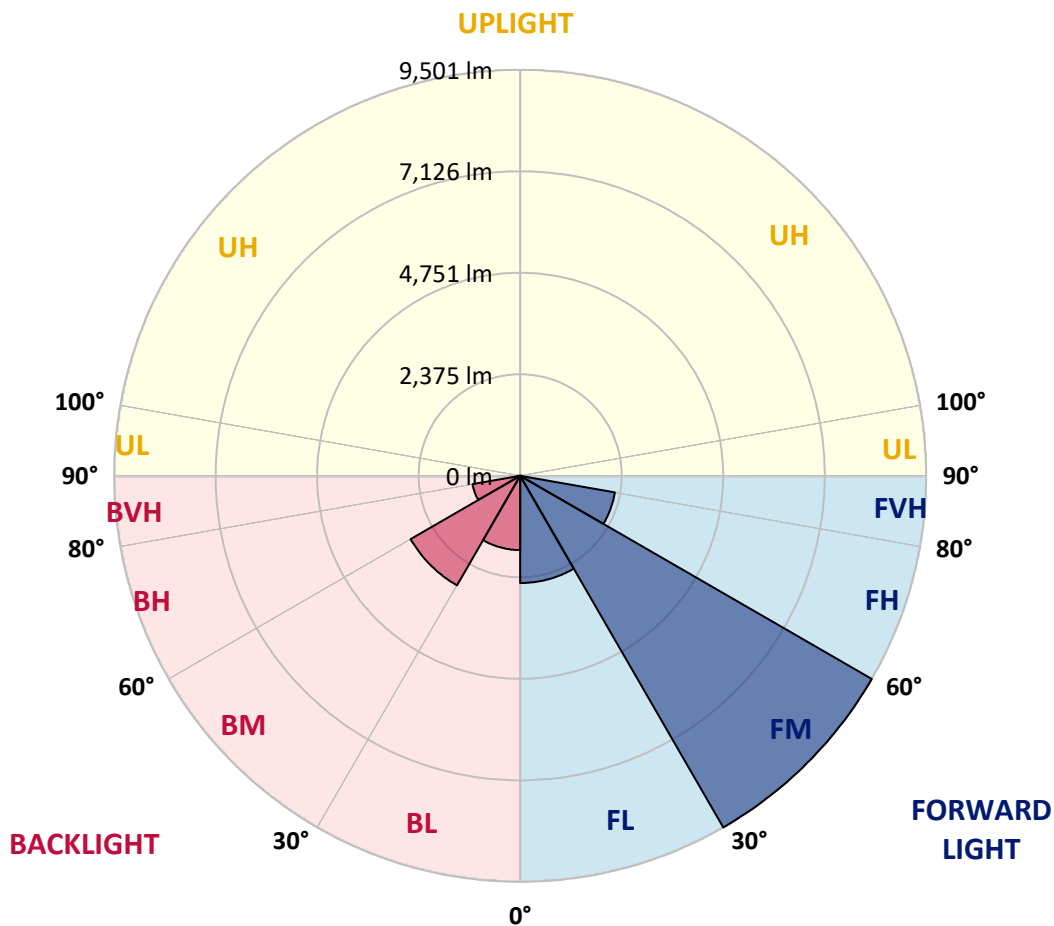
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2509.4	12.4			
FM (30°-60°)	9501.2	47.0			
FH (60°-80°)	2250.9	11.1			G2/5000
FVH (80°-90°)	42.9	0.2			G1/100
BL (0°-30°)	1738.5	8.6	B3/2500		
BM (30°-60°)	2960.0	14.7	B3/5000		
BH (60°-80°)	1132.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	63.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6
2.5°	6599.7	6542.7	6576.4	6563.4	6669.7	6700.8	6685.2	6698.2	6757.8	6729.3	6669.7
5°	6167.0	6247.3	6262.9	6301.7	6363.9	6485.7	6581.6	6607.5	6636.0	6768.1	6755.2
7.5°	5773.1	5827.5	5799.0	5913.0	6047.8	6244.7	6361.3	6382.0	6643.8	6716.3	6770.7
10°	5524.4	5470.0	5599.5	5630.6	5783.5	6008.9	6148.8	6234.4	6472.7	6760.4	6794.0
12.5°	5293.8	5275.6	5353.4	5441.5	5612.5	5845.7	5988.2	6021.9	6389.8	6693.0	6851.1
15°	5122.7	5102.0	5179.7	5244.5	5444.0	5651.3	5832.7	5928.6	6299.1	6654.1	6801.8
17.5°	4988.0	4985.4	5029.5	5146.1	5350.8	5524.4	5817.2	5822.4	6252.5	6713.7	6843.3
20°	4980.2	4977.6	4985.4	5115.0	5301.5	5514.0	5767.9	5814.6	6252.5	6672.3	6845.9
22.5°	5045.0	5003.5	5050.2	5133.1	5267.8	5532.1	5786.1	5889.7	6402.8	6877.0	6962.5
25°	5148.7	5159.0	5184.9	5213.4	5291.2	5573.6	5946.7	6032.2	6579.0	7053.2	7123.1
27.5°	5337.8	5332.6	5343.0	5358.5	5425.9	5612.5	6011.5	6231.8	6946.9	7366.7	7296.7
30°	5615.1	5596.9	5638.4	5692.8	5630.6	5736.8	6226.6	6392.4	7289.0	7682.8	7491.1
32.5°	5866.4	5933.8	6011.5	6034.8	5959.7	5980.4	6511.6	6680.0	7574.0	8071.5	7729.5
35°	6179.9	6234.4	6338.0	6410.6	6397.6	6335.4	6900.3	7123.1	7986.0	8356.5	7980.8
37.5°	6485.7	6550.5	6721.5	6936.6	6817.4	6788.9	7314.9	7498.8	8113.0	8509.4	8164.8
40°	6978.0	6975.4	7270.8	7382.2	7488.5	7439.2	7745.0	7807.2	8180.3	8475.7	8170.0
42.5°	7555.8	7519.6	7820.1	7993.8	8131.1	8136.3	8193.3	8172.5	8211.4	8304.7	8115.5
45°	8105.2	8182.9	8486.1	8797.0	8934.4	8949.9	8571.6	8532.7	8265.8	8255.5	8011.9
47.5°	8776.3	8794.4	9043.2	9452.6	9771.3	9662.5	9061.3	8975.8	8504.2	8584.5	8185.5
50°	8815.2	8949.9	9172.7	9654.7	10634.2	10605.7	9696.2	9535.5	8887.7	9051.0	8670.1
52.5°	8001.5	7970.4	8234.7	9022.5	10569.4	11543.7	10748.2	10364.7	9711.7	9587.3	9455.2
55°	6097.0	6169.6	6402.8	7198.3	9177.9	11556.6	12181.1	11867.6	10592.7	10380.2	10227.3
56°	5348.2	5358.5	5578.8	6304.3	8374.7	11144.6	12453.2	12199.2	11030.6	10706.7	10473.5
57.5°	4433.5	4373.9	4487.9	4884.4	7068.7	10274.0	12155.2	12403.9	11543.7	11059.1	10735.2
60°	3490.3	3477.3	3430.7	3503.3	4467.2	7739.8	10118.5	10678.2	11491.8	10727.4	10281.8
62.5°	2850.3	2785.5	2878.8	2982.4	3104.2	4801.4	7110.2	7439.2	9123.5	8563.8	7724.3
65°	2210.3	2179.2	2295.8	2632.6	2705.2	3049.8	4050.0	4303.9	5387.0	5291.2	4658.9
67.5°	1521.0	1526.2	1627.3	2140.3	2508.3	2477.2	2479.7	2611.9	2811.4	2088.5	1819.0
70°	963.9	961.3	1015.7	1378.5	2018.5	2039.3	1935.6	1896.7	1798.3	1088.3	1153.1
72.5°	619.3	601.2	629.7	761.8	1044.2	1207.5	1243.8	1267.1	1041.7	855.1	927.6
75°	349.8	331.7	321.3	355.0	412.0	476.8	523.4	539.0	603.7	647.8	686.7
77.5°	106.2	95.9	116.6	155.5	204.7	274.7	334.3	344.6	406.8	458.6	497.5
80°	46.6	51.8	72.6	103.6	145.1	194.3	235.8	251.3	292.8	331.7	342.0
82.5°	28.5	31.1	49.2	70.0	101.1	137.3	168.4	173.6	215.1	246.2	253.9
85°	10.4	13.0	25.9	41.5	64.8	88.1	88.1	95.9	88.1	88.1	95.9
87.5°	0.0	0.0	2.6	5.2	5.2	7.8	10.4	10.4	13.0	15.5	18.1
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°	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6	6682.6
2.5°	6700.8	6687.8	6667.1	6591.9	6584.2	6560.8	6431.3	6410.6	6431.3	6369.1	6374.3
5°	6687.8	6726.7	6571.2	6496.1	6356.1	6255.1	6138.5	6078.9	5972.6	5905.3	5980.4
7.5°	6744.8	6729.3	6534.9	6371.7	6161.8	5905.3	5700.6	5584.0	5397.4	5345.6	5384.4
10°	6724.1	6641.2	6413.1	6198.1	5801.6	5576.2	5244.5	4923.2	4747.0	4656.3	4643.4
12.5°	6695.6	6672.3	6291.4	5920.8	5503.6	5029.5	4563.0	4259.9	3972.3	3847.9	3866.0
15°	6729.3	6532.3	6063.3	5594.3	5039.8	4417.9	3915.3	3524.0	3324.5	3244.1	3244.1
17.5°	6713.7	6465.0	5954.5	5229.0	4526.8	3790.9	3239.0	3003.2	2920.2	2920.2	2943.6
20°	6721.5	6509.0	5734.3	4863.6	3920.4	3192.3	2790.7	2705.2	2741.5	2754.4	2767.4
22.5°	6765.5	6363.9	5519.2	4462.0	3358.2	2731.1	2534.2	2536.8	2601.5	2671.5	2658.5
25°	6820.0	6306.9	5257.5	4063.0	2928.0	2505.7	2443.5	2435.7	2484.9	2521.2	2526.4
27.5°	6773.3	6208.4	4990.6	3565.4	2575.6	2355.4	2342.4	2347.6	2363.1	2435.7	2412.4
30°	6926.2	6236.9	4656.3	3148.3	2381.3	2306.1	2290.6	2282.8	2306.1	2326.9	2308.7
32.5°	7115.4	6135.9	4407.6	2746.6	2285.4	2269.9	2238.8	2228.4	2241.4	2220.6	2231.0
35°	7198.3	6117.8	4083.7	2459.0	2210.3	2197.3	2179.2	2176.6	2179.2	2161.0	2145.5
37.5°	7244.9	6203.3	3713.1	2326.9	2163.6	2176.6	2135.1	2129.9	2083.3	2093.7	2101.4
40°	7325.2	6071.1	3412.6	2199.9	2135.1	2109.2	2072.9	2065.2	2034.1	2015.9	2034.1
42.5°	7208.6	6032.2	3117.2	2145.5	2093.7	2065.2	2039.3	1995.2	1984.8	1969.3	1958.9
45°	7115.4	5809.4	2852.9	2078.1	2044.4	2028.9	1979.7	1933.0	1894.1	1909.7	1886.4
47.5°	7185.3	5731.7	2591.2	2021.1	1977.1	1958.9	1909.7	1873.4	1834.5	1816.4	1811.2
50°	7465.2	5876.8	2370.9	1979.7	1920.1	1909.7	1844.9	1803.5	1767.2	1754.2	1759.4
52.5°	8133.7	6273.2	2220.6	1894.1	1865.6	1819.0	1782.7	1730.9	1707.6	1666.1	1692.0
55°	8981.0	6918.4	2181.8	1813.8	1798.3	1756.8	1707.6	1668.7	1624.7	1591.0	1583.2
56°	9253.1	7226.8	2150.7	1782.7	1756.8	1733.5	1668.7	1645.4	1575.4	1567.7	1562.5
57.5°	9473.3	7498.8	2155.9	1723.1	1697.2	1676.5	1637.6	1580.6	1534.0	1505.5	1518.4
60°	8975.8	7019.5	2057.4	1632.4	1627.3	1588.4	1534.0	1508.1	1451.1	1417.4	1409.6
62.5°	6672.3	4765.2	1668.7	1515.8	1513.2	1471.8	1409.6	1381.1	1370.7	1324.1	1324.1
65°	3842.7	2987.6	1443.3	1420.0	1399.2	1357.8	1295.6	1272.3	1246.4	1230.8	1217.8
67.5°	1640.2	1549.5	1311.1	1308.5	1285.2	1233.4	1171.2	1134.9	1101.2	1070.2	1085.7
70°	1189.3	1207.5	1184.2	1171.2	1142.7	1077.9	1023.5	979.5	927.6	906.9	922.5
72.5°	943.2	982.1	1015.7	1018.3	984.6	909.5	849.9	790.3	733.3	704.8	717.8
75°	715.2	741.1	774.8	782.5	733.3	681.5	624.5	562.3	518.2	484.5	489.7
77.5°	515.6	510.5	541.6	536.4	513.1	476.8	425.0	367.9	318.7	287.6	290.2
80°	352.4	360.2	378.3	375.7	347.2	323.9	285.0	238.4	202.1	176.2	171.0
82.5°	246.2	259.1	274.7	261.7	238.4	215.1	186.6	152.9	124.4	103.6	98.5
85°	88.1	101.1	116.6	124.4	132.1	127.0	106.2	85.5	62.2	51.8	49.2
87.5°	18.1	20.7	23.3	23.3	23.3	20.7	18.1	18.1	15.5	7.8	7.8
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)