

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: P529324

Luminaire Tested: **GALN-SA4C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529324
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-SA4C-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 19714 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

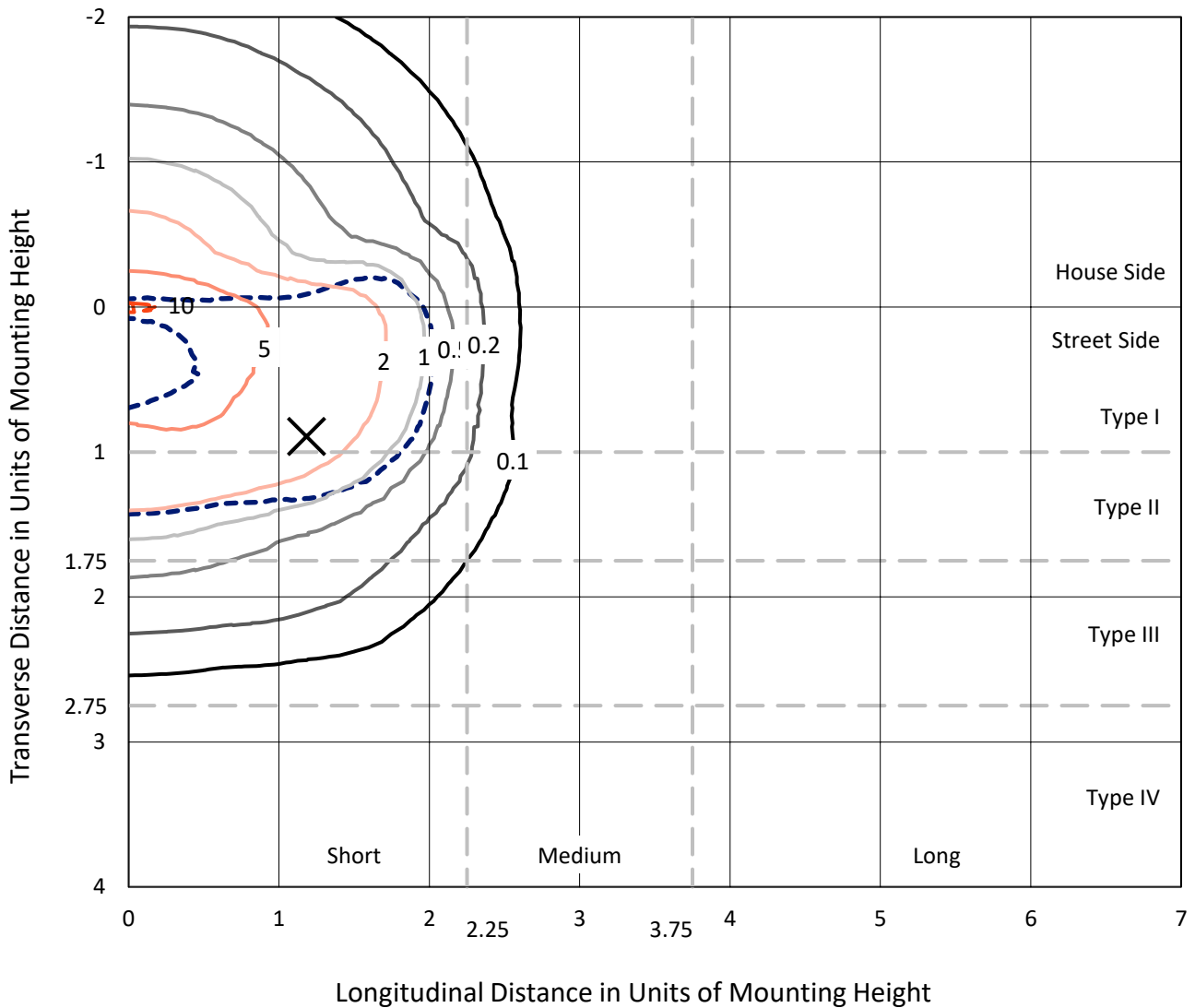
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

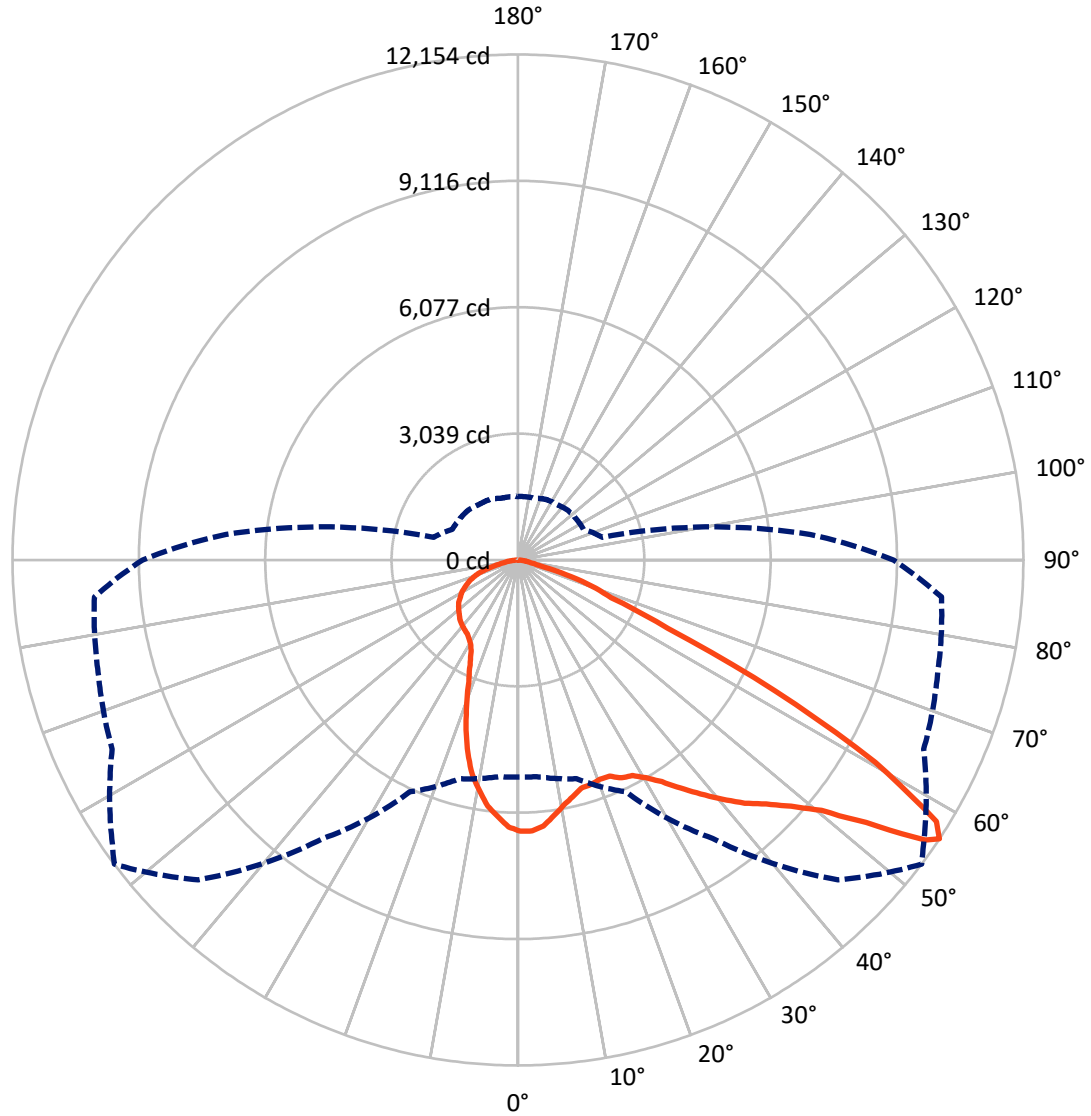
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	5753.0	0.0	5753.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13961.0	0.0	13961.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	19714.0	0.0	19714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.4	2.9
10°-20°	1442.1	7.3
20°-30°	2126.5	10.8
30°-40°	3038.3	15.4
40°-50°	4181.9	21.2
50°-60°	4941.8	25.1
60°-70°	2633.7	13.4
70°-80°	668.1	3.4
80°-90°	104.2	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°	19714.0	100.0
0°-180°	19714.0	100.0

Coefficient of Utilization



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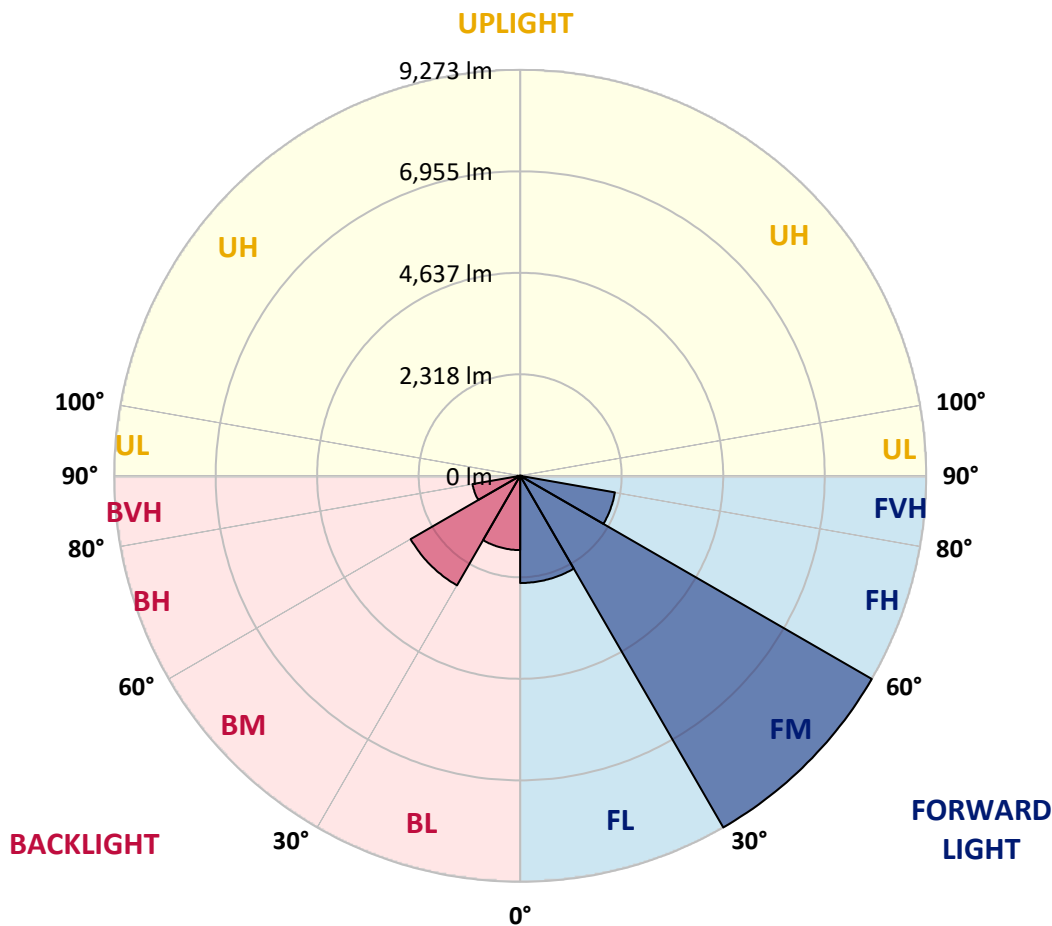
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2449.2	12.4			
FM (30°-60°)	9273.1	47.0			
FH (60°-80°)	2196.9	11.1			G2/5000
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	1696.8	8.6	B3/2500		
BM (30°-60°)	2888.9	14.7	B3/5000		
BH (60°-80°)	1104.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	62.3	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°	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2
2.5°	6441.2	6385.6	6418.5	6405.8	6509.5	6539.9	6524.7	6537.3	6595.5	6567.7	6509.5
5°	6018.9	6097.3	6112.5	6150.4	6211.1	6330.0	6423.5	6448.8	6476.6	6605.6	6593.0
7.5°	5634.5	5687.6	5659.8	5771.1	5902.6	6094.8	6208.6	6228.8	6484.2	6555.0	6608.2
10°	5391.7	5338.6	5465.1	5495.4	5644.6	5864.6	6001.2	6084.7	6317.3	6598.0	6630.9
12.5°	5166.6	5148.9	5224.8	5310.8	5477.7	5705.3	5844.4	5877.3	6236.4	6532.3	6686.6
15°	4999.7	4979.5	5055.4	5118.6	5313.3	5515.6	5692.7	5786.2	6147.9	6494.3	6638.5
17.5°	4868.2	4865.7	4908.7	5022.5	5222.3	5391.7	5677.5	5682.6	6102.4	6552.5	6679.0
20°	4860.6	4858.1	4865.7	4992.2	5174.2	5381.6	5629.4	5675.0	6102.4	6512.1	6681.5
22.5°	4923.9	4883.4	4928.9	5009.9	5141.4	5399.3	5647.2	5748.3	6249.0	6711.8	6795.3
25°	5025.0	5035.1	5060.4	5088.3	5164.1	5439.8	5803.9	5887.4	6421.0	6883.8	6952.1
27.5°	5209.6	5204.6	5214.7	5229.9	5295.6	5477.7	5867.2	6082.1	6780.1	7189.8	7121.5
30°	5480.2	5462.5	5503.0	5556.1	5495.4	5599.1	6077.1	6238.9	7113.9	7498.3	7311.2
32.5°	5725.5	5791.3	5867.2	5889.9	5816.6	5836.8	6355.3	6519.6	7392.1	7877.7	7543.9
35°	6031.6	6084.7	6185.8	6256.6	6244.0	6183.3	6734.6	6952.1	7794.2	8155.9	7789.2
37.5°	6330.0	6393.2	6560.1	6770.0	6653.7	6625.9	7139.2	7318.8	7918.1	8305.1	7968.7
40°	6810.5	6807.9	7096.2	7205.0	7308.7	7260.6	7559.0	7619.7	7983.9	8272.2	7973.8
42.5°	7374.4	7339.0	7632.4	7801.8	7935.9	7940.9	7996.5	7976.3	8014.3	8105.3	7920.7
45°	7910.6	7986.4	8282.3	8585.8	8719.8	8735.0	8365.8	8327.8	8067.4	8057.2	7819.5
47.5°	8565.6	8583.3	8826.0	9225.6	9536.7	9430.5	8843.7	8760.3	8300.0	8378.4	7989.0
50°	8603.5	8735.0	8952.5	9422.9	10378.8	10351.0	9463.3	9306.5	8674.3	8833.6	8461.9
52.5°	7809.4	7779.1	8037.0	8805.8	10315.6	11266.5	10490.1	10115.8	9478.5	9357.1	9228.1
55°	5950.6	6021.4	6249.0	7025.4	8957.5	11279.1	11888.6	11582.6	10338.4	10131.0	9981.8
56°	5219.8	5229.9	5444.8	6152.9	8173.6	10877.0	12154.1	11906.3	10765.8	10449.6	10222.0
57.5°	4327.0	4268.9	4380.1	4767.1	6899.0	10027.3	11863.3	12106.1	11266.5	10793.6	10477.4
60°	3406.5	3393.9	3348.3	3419.1	4359.9	7554.0	9875.6	10421.8	11215.9	10469.9	10034.9
62.5°	2781.8	2718.6	2809.7	2910.8	3029.7	4686.1	6939.4	7260.6	8904.4	8358.2	7538.8
65°	2157.2	2126.8	2240.7	2569.4	2640.2	2976.6	3952.8	4200.6	5257.7	5164.1	4547.1
67.5°	1484.5	1489.6	1588.2	2088.9	2448.0	2417.7	2420.2	2549.2	2743.9	2038.3	1775.3
70°	940.8	938.2	991.3	1345.4	1970.1	1990.3	1889.1	1851.2	1755.1	1062.2	1125.4
72.5°	604.4	586.7	614.5	743.5	1019.2	1178.5	1213.9	1236.7	1016.6	834.6	905.4
75°	341.4	323.7	313.6	346.5	402.1	465.3	510.8	526.0	589.2	632.2	670.2
77.5°	103.7	93.6	113.8	151.7	199.8	268.1	326.2	336.4	397.0	447.6	485.6
80°	45.5	50.6	70.8	101.2	141.6	189.7	230.1	245.3	285.8	323.7	333.8
82.5°	27.8	30.3	48.1	68.3	98.6	134.0	164.4	169.4	209.9	240.3	247.8
85°	10.1	12.6	25.3	40.5	63.2	86.0	86.0	93.6	86.0	86.0	93.6
87.5°	0.0	0.0	2.5	5.1	5.1	7.6	10.1	10.1	12.6	15.2	17.7
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°	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2
2.5°	6539.9	6527.2	6507.0	6433.7	6426.1	6403.3	6276.9	6256.6	6276.9	6216.2	6221.2
5°	6527.2	6565.2	6413.4	6340.1	6203.5	6104.9	5991.1	5932.9	5829.2	5763.5	5836.8
7.5°	6582.9	6567.7	6378.0	6218.7	6013.8	5763.5	5563.7	5449.9	5267.8	5217.2	5255.2
10°	6562.6	6481.7	6259.2	6049.3	5662.3	5442.3	5118.6	4805.0	4633.0	4544.5	4531.9
12.5°	6534.8	6512.1	6140.3	5778.7	5371.5	4908.7	4453.5	4157.6	3876.9	3755.5	3773.2
15°	6567.7	6375.5	5917.7	5460.0	4918.8	4311.9	3821.2	3439.4	3244.6	3166.2	3166.2
17.5°	6552.5	6309.7	5811.5	5103.4	4418.1	3699.9	3161.2	2931.1	2850.1	2850.1	2872.9
20°	6560.1	6352.7	5596.6	4746.8	3826.3	3115.7	2723.7	2640.2	2675.6	2688.3	2700.9
22.5°	6603.1	6211.1	5386.7	4354.9	3277.5	2665.5	2473.3	2475.8	2539.1	2607.3	2594.7
25°	6656.2	6155.5	5131.2	3965.4	2857.7	2445.5	2384.8	2377.2	2425.3	2460.7	2465.7
27.5°	6610.7	6059.4	4870.8	3479.8	2513.8	2298.8	2286.2	2291.2	2306.4	2377.2	2354.5
30°	6759.9	6087.2	4544.5	3072.7	2324.1	2250.8	2235.6	2228.0	2250.8	2271.0	2253.3
32.5°	6944.5	5988.6	4301.7	2680.7	2230.5	2215.4	2185.0	2174.9	2187.5	2167.3	2177.4
35°	7025.4	5970.9	3985.6	2400.0	2157.2	2144.6	2126.8	2124.3	2126.8	2109.1	2094.0
37.5°	7071.0	6054.3	3624.0	2271.0	2111.7	2124.3	2083.9	2078.8	2033.3	2043.4	2051.0
40°	7149.3	5925.3	3330.6	2147.1	2083.9	2058.6	2023.2	2015.6	1985.2	1967.5	1985.2
42.5°	7035.5	5887.4	3042.3	2094.0	2043.4	2015.6	1990.3	1947.3	1937.2	1922.0	1911.9
45°	6944.5	5669.9	2784.4	2028.2	1995.3	1980.2	1932.1	1886.6	1848.7	1863.8	1841.1
47.5°	7012.8	5594.0	2529.0	1972.6	1929.6	1911.9	1863.8	1828.4	1790.5	1772.8	1767.7
50°	7285.9	5735.7	2314.0	1932.1	1874.0	1863.8	1800.6	1760.2	1724.7	1712.1	1717.2
52.5°	7938.4	6122.6	2167.3	1848.7	1820.8	1775.3	1739.9	1689.3	1666.6	1626.1	1651.4
55°	8765.3	6752.3	2129.4	1770.3	1755.1	1714.6	1666.6	1628.6	1585.7	1552.8	1545.2
56°	9030.9	7053.2	2099.0	1739.9	1714.6	1691.9	1628.6	1605.9	1537.6	1530.0	1525.0
57.5°	9245.8	7318.8	2104.1	1681.8	1656.5	1636.2	1598.3	1542.7	1497.1	1469.3	1482.0
60°	8760.3	6850.9	2008.0	1593.2	1588.2	1550.2	1497.1	1471.9	1416.2	1383.3	1375.8
62.5°	6512.1	4650.7	1628.6	1479.4	1476.9	1436.4	1375.8	1347.9	1337.8	1292.3	1292.3
65°	3750.4	2915.9	1408.6	1385.9	1365.6	1325.2	1264.5	1241.7	1216.4	1201.3	1188.6
67.5°	1600.8	1512.3	1279.6	1277.1	1254.4	1203.8	1143.1	1107.7	1074.8	1044.5	1059.6
70°	1160.8	1178.5	1155.7	1143.1	1115.3	1052.0	998.9	955.9	905.4	885.1	900.3
72.5°	920.5	958.5	991.3	993.9	961.0	887.7	829.5	771.3	715.7	687.9	700.5
75°	698.0	723.3	756.2	763.7	715.7	665.1	609.5	548.8	505.8	472.9	478.0
77.5°	503.3	498.2	528.6	523.5	500.7	465.3	414.7	359.1	311.1	280.7	283.2
80°	343.9	351.5	369.2	366.7	338.9	316.1	278.2	232.7	197.3	172.0	166.9
82.5°	240.3	252.9	268.1	255.4	232.7	209.9	182.1	149.2	121.4	101.2	96.1
85°	86.0	98.6	113.8	121.4	129.0	123.9	103.7	83.5	60.7	50.6	48.1
87.5°	17.7	20.2	22.8	22.8	22.8	20.2	17.7	17.7	15.2	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)