

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: P528700

Luminaire Tested: **GALN-SA3D-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528700
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-SA3D-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA 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: 19574 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

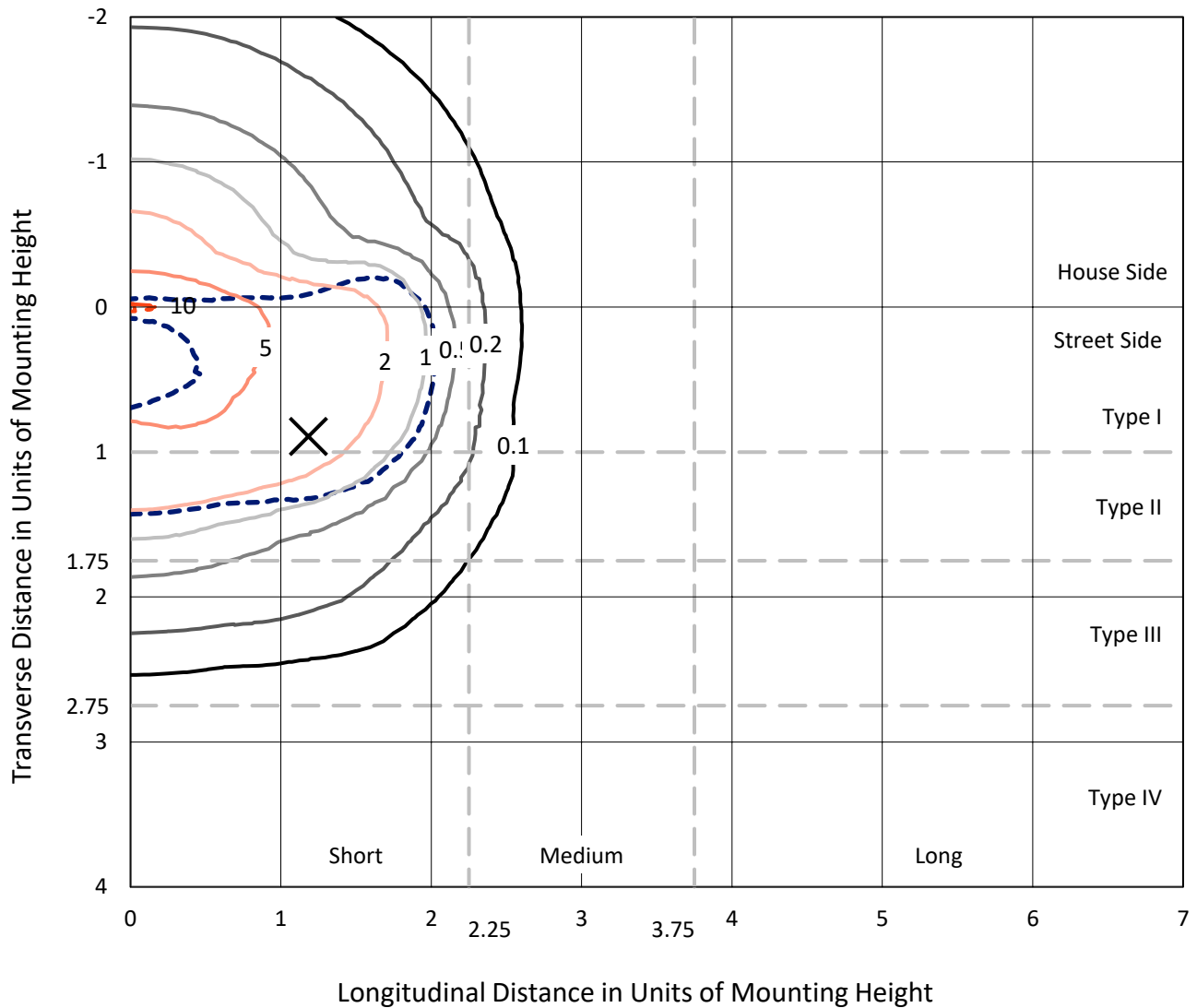
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

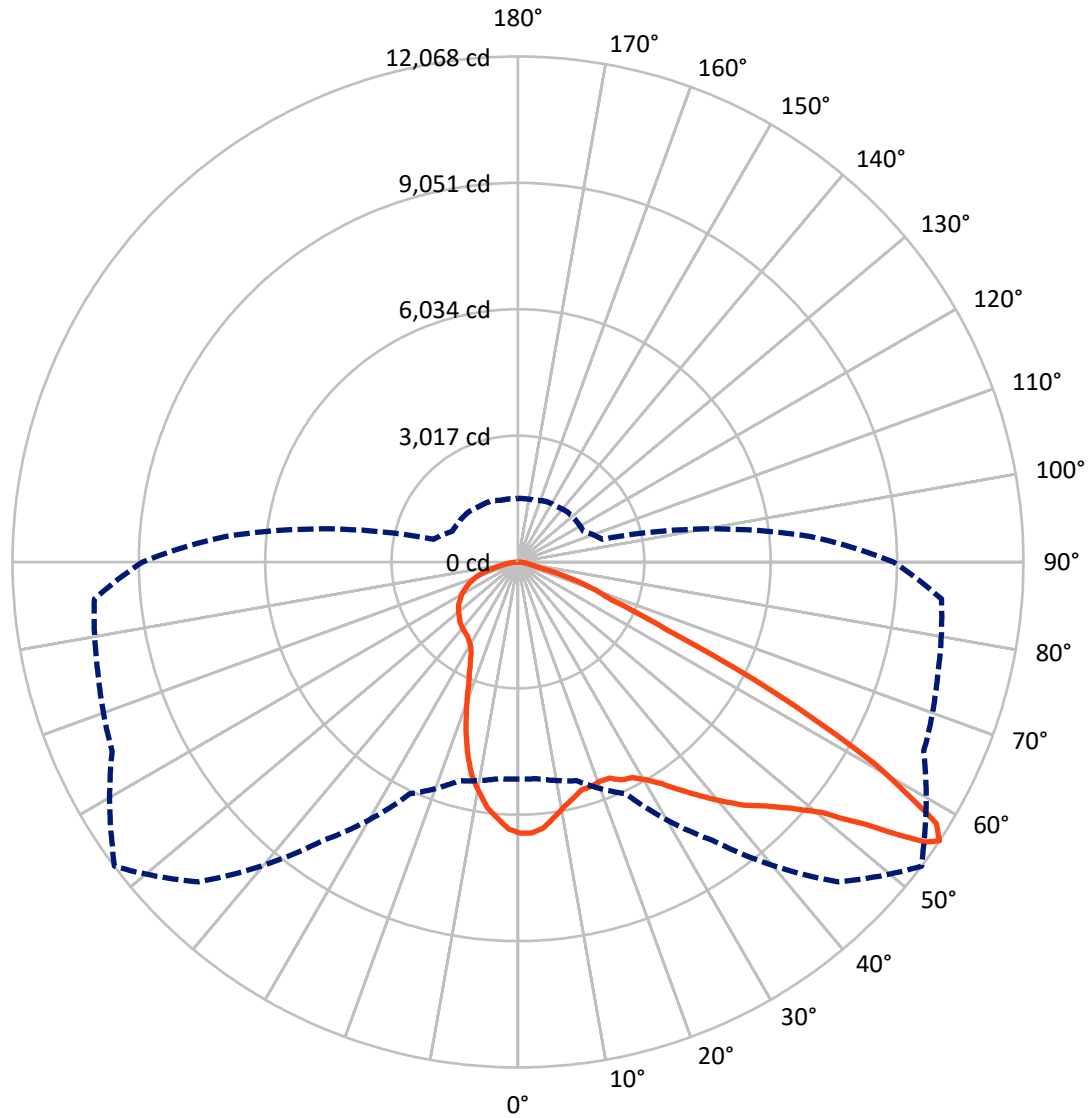
✕ Max cd
 - - - 1/2 Max cd



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	5712.1	0.0	5712.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13861.9	0.0	13861.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	19574.0	0.0	19574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.3	2.9
10°-20°	1431.8	7.3
20°-30°	2111.4	10.8
30°-40°	3016.8	15.4
40°-50°	4152.2	21.2
50°-60°	4906.7	25.1
60°-70°	2615.0	13.4
70°-80°	663.4	3.4
80°-90°	103.4	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°	19574.0	100.0
0°-180°	19574.0	100.0

Coefficient of Utilization



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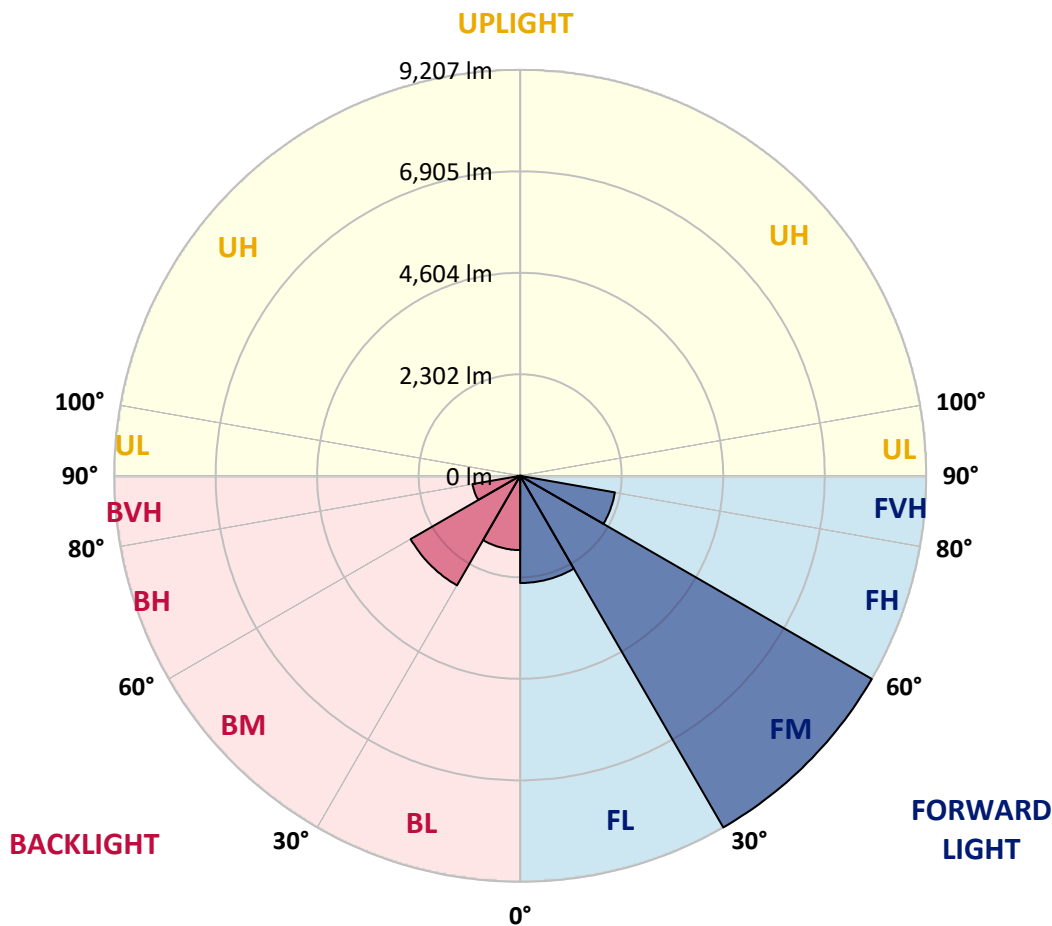
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.8	12.4			
FM (30°-60°)	9207.2	47.0			
FH (60°-80°)	2181.3	11.1			G2/5000
FVH (80°-90°)	41.6	0.2			G1/100
BL (0°-30°)	1684.7	8.6	B3/2500		
BM (30°-60°)	2868.4	14.7	B3/5000		
BH (60°-80°)	1097.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	61.9	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°	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9
2.5°	6395.5	6340.3	6372.9	6360.3	6463.3	6493.4	6478.4	6490.9	6548.7	6521.0	6463.3
5°	5976.2	6054.0	6069.1	6106.7	6167.0	6285.0	6377.9	6403.0	6430.7	6558.7	6546.2
7.5°	5594.5	5647.2	5619.6	5730.1	5860.7	6051.5	6164.5	6184.6	6438.2	6508.5	6561.2
10°	5353.4	5300.7	5426.3	5456.4	5604.5	5823.0	5958.6	6041.4	6272.5	6551.2	6583.8
12.5°	5130.0	5112.4	5187.7	5273.1	5438.8	5664.8	5802.9	5835.5	6192.1	6485.9	6639.1
15°	4964.2	4944.1	5019.5	5082.2	5275.6	5476.5	5652.2	5745.2	6104.2	6448.2	6591.4
17.5°	4833.7	4831.2	4873.8	4986.8	5185.2	5353.4	5637.2	5642.2	6059.0	6506.0	6631.5
20°	4826.1	4823.6	4831.2	4956.7	5137.5	5343.4	5589.5	5634.7	6059.0	6465.8	6634.0
22.5°	4888.9	4848.7	4893.9	4974.3	5104.8	5361.0	5607.0	5707.5	6204.7	6664.2	6747.0
25°	4989.3	4999.4	5024.5	5052.1	5127.4	5401.1	5762.7	5845.6	6375.4	6834.9	6902.7
27.5°	5172.6	5167.6	5177.7	5192.7	5258.0	5438.8	5825.5	6038.9	6732.0	7138.8	7071.0
30°	5441.3	5423.7	5463.9	5516.7	5456.4	5559.3	6033.9	6194.6	7063.4	7445.1	7259.3
32.5°	5684.9	5750.2	5825.5	5848.1	5775.3	5795.4	6310.1	6473.3	7339.6	7821.7	7490.3
35°	5988.7	6041.4	6141.9	6212.2	6199.6	6139.4	6686.8	6902.7	7738.9	8098.0	7733.9
37.5°	6285.0	6347.8	6513.5	6721.9	6606.4	6578.8	7088.5	7266.8	7861.9	8246.1	7912.1
40°	6762.1	6759.6	7045.8	7153.8	7256.8	7209.1	7505.4	7565.6	7927.2	8213.5	7917.2
42.5°	7322.1	7286.9	7578.2	7746.4	7879.5	7884.5	7939.8	7919.7	7957.3	8047.7	7864.4
45°	7854.4	7929.7	8223.5	8524.8	8657.9	8673.0	8306.4	8268.7	8010.1	8000.0	7764.0
47.5°	8504.7	8522.3	8763.4	9160.1	9469.0	9363.5	8780.9	8698.1	8241.1	8318.9	7932.2
50°	8542.4	8673.0	8888.9	9356.0	10305.1	10277.5	9396.1	9240.5	8612.7	8770.9	8401.8
52.5°	7753.9	7723.8	7979.9	8743.3	10242.3	11186.5	10415.6	10044.0	9411.2	9290.7	9162.6
55°	5908.4	5978.7	6204.7	6975.5	8893.9	11199.0	11804.2	11500.3	10264.9	10059.0	9910.9
56°	5182.7	5192.7	5406.2	6109.2	8115.5	10799.8	12067.8	11821.8	10689.3	10375.4	10149.4
57.5°	4296.3	4238.6	4349.0	4733.2	6850.0	9956.1	11779.1	12020.1	11186.5	10716.9	10403.0
60°	3382.3	3369.8	3324.6	3394.9	4329.0	7500.3	9805.4	10347.8	11136.3	10395.5	9963.6
62.5°	2762.1	2699.3	2789.7	2890.2	3008.2	4652.9	6890.2	7209.1	8841.2	8298.8	7485.3
65°	2141.9	2111.7	2224.7	2551.2	2621.5	2955.4	3924.7	4170.8	5220.4	5127.4	4514.8
67.5°	1474.0	1479.0	1576.9	2074.1	2430.6	2400.5	2403.0	2531.1	2724.4	2023.9	1762.7
70°	934.1	931.6	984.3	1335.8	1956.1	1976.2	1875.7	1838.0	1742.6	1054.6	1117.4
72.5°	600.1	582.6	610.2	738.2	1011.9	1170.1	1205.3	1227.9	1009.4	828.6	898.9
75°	339.0	321.4	311.4	344.0	399.2	462.0	507.2	522.3	585.1	627.7	665.4
77.5°	103.0	92.9	113.0	150.7	198.4	266.2	323.9	334.0	394.2	444.4	482.1
80°	45.2	50.2	70.3	100.4	140.6	188.3	228.5	243.6	283.7	321.4	331.5
82.5°	27.6	30.1	47.7	67.8	97.9	133.1	163.2	168.2	208.4	238.5	246.1
85°	10.0	12.6	25.1	40.2	62.8	85.4	85.4	92.9	85.4	85.4	92.9
87.5°	0.0	0.0	2.5	5.0	5.0	7.5	10.0	10.0	12.6	15.1	17.6
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°	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9
2.5°	6493.4	6480.9	6460.8	6388.0	6380.4	6357.8	6232.3	6212.2	6232.3	6172.0	6177.0
5°	6480.9	6518.5	6367.9	6295.1	6159.5	6061.5	5948.5	5890.8	5787.8	5722.6	5795.4
7.5°	6536.1	6521.0	6332.7	6174.5	5971.1	5722.6	5524.2	5411.2	5230.4	5180.2	5217.8
10°	6516.0	6435.7	6214.7	6006.3	5622.1	5403.7	5082.2	4770.9	4600.1	4512.3	4499.7
12.5°	6488.4	6465.8	6096.7	5737.6	5333.3	4873.8	4421.9	4128.1	3849.4	3728.8	3746.4
15°	6521.0	6330.2	5875.7	5421.2	4883.9	4281.2	3794.1	3415.0	3221.6	3143.8	3143.8
17.5°	6506.0	6264.9	5770.3	5067.2	4386.7	3673.6	3138.7	2910.2	2829.9	2829.9	2852.5
20°	6513.5	6307.6	5556.8	4713.1	3799.1	3093.5	2704.3	2621.5	2656.6	2669.2	2681.7
22.5°	6556.2	6167.0	5348.4	4323.9	3254.2	2646.6	2455.8	2458.3	2521.0	2588.8	2576.3
25°	6608.9	6111.8	5094.8	3937.2	2837.4	2428.1	2367.9	2360.3	2408.0	2443.2	2448.2
27.5°	6563.7	6016.3	4836.2	3455.1	2495.9	2282.5	2269.9	2275.0	2290.0	2360.3	2337.7
30°	6711.9	6044.0	4512.3	3050.9	2307.6	2234.8	2219.7	2212.2	2234.8	2254.9	2237.3
32.5°	6895.2	5946.0	4271.2	2661.7	2214.7	2199.6	2169.5	2159.5	2172.0	2151.9	2162.0
35°	6975.5	5928.5	3957.3	2382.9	2141.9	2129.3	2111.7	2109.2	2111.7	2094.2	2079.1
37.5°	7020.7	6011.3	3598.3	2254.9	2096.7	2109.2	2069.1	2064.0	2018.8	2028.9	2036.4
40°	7098.6	5883.3	3307.0	2131.8	2069.1	2043.9	2008.8	2001.3	1971.1	1953.6	1971.1
42.5°	6985.6	5845.6	3020.7	2079.1	2028.9	2001.3	1976.2	1933.5	1923.4	1908.4	1898.3
45°	6895.2	5629.6	2764.6	2013.8	1981.2	1966.1	1918.4	1873.2	1835.5	1850.6	1828.0
47.5°	6963.0	5554.3	2511.0	1958.6	1915.9	1898.3	1850.6	1815.4	1777.8	1760.2	1755.2
50°	7234.2	5694.9	2297.6	1918.4	1860.6	1850.6	1787.8	1747.7	1712.5	1699.9	1705.0
52.5°	7882.0	6079.1	2151.9	1835.5	1807.9	1762.7	1727.6	1677.3	1654.7	1614.6	1639.7
55°	8703.1	6704.4	2114.3	1757.7	1742.6	1702.5	1654.7	1617.1	1574.4	1541.7	1534.2
56°	8966.8	7003.2	2084.1	1727.6	1702.5	1679.9	1617.1	1594.5	1526.7	1519.2	1514.1
57.5°	9180.2	7266.8	2089.1	1669.8	1644.7	1624.6	1586.9	1531.7	1486.5	1458.9	1471.4
60°	8698.1	6802.3	1993.7	1581.9	1576.9	1539.2	1486.5	1461.4	1406.2	1373.5	1366.0
62.5°	6465.8	4617.7	1617.1	1468.9	1466.4	1426.2	1366.0	1338.4	1328.3	1283.1	1283.1
65°	3723.8	2895.2	1398.6	1376.0	1355.9	1315.8	1255.5	1232.9	1207.8	1192.7	1180.2
67.5°	1589.5	1501.6	1270.6	1268.1	1245.5	1195.2	1135.0	1099.8	1067.2	1037.0	1052.1
70°	1152.5	1170.1	1147.5	1135.0	1107.3	1044.6	991.8	949.2	898.9	878.8	893.9
72.5°	914.0	951.7	984.3	986.8	954.2	881.4	823.6	765.9	710.6	683.0	695.5
75°	693.0	718.1	750.8	758.3	710.6	660.4	605.1	544.9	502.2	469.6	474.6
77.5°	499.7	494.7	524.8	519.8	497.2	462.0	411.8	356.6	308.9	278.7	281.2
80°	341.5	349.0	366.6	364.1	336.5	313.9	276.2	231.0	195.9	170.7	165.7
82.5°	238.5	251.1	266.2	253.6	231.0	208.4	180.8	148.1	120.5	100.4	95.4
85°	85.4	97.9	113.0	120.5	128.1	123.0	103.0	82.9	60.3	50.2	47.7
87.5°	17.6	20.1	22.6	22.6	22.6	20.1	17.6	17.6	15.1	7.5	7.5
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)