

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: P529922

Luminaire Tested: **GALN-SA5A-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529922
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-SA5A-760-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA 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: 19411 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

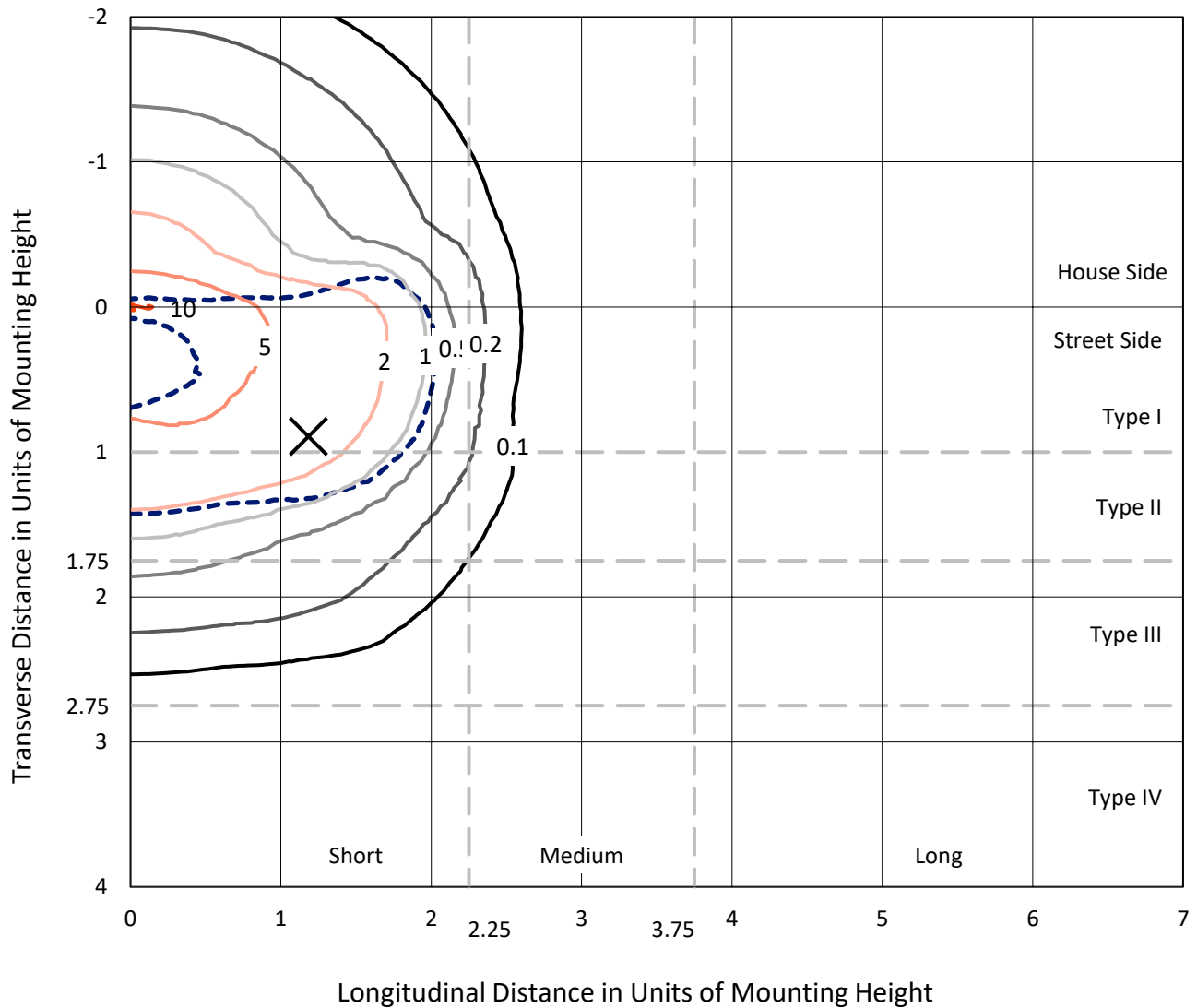
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

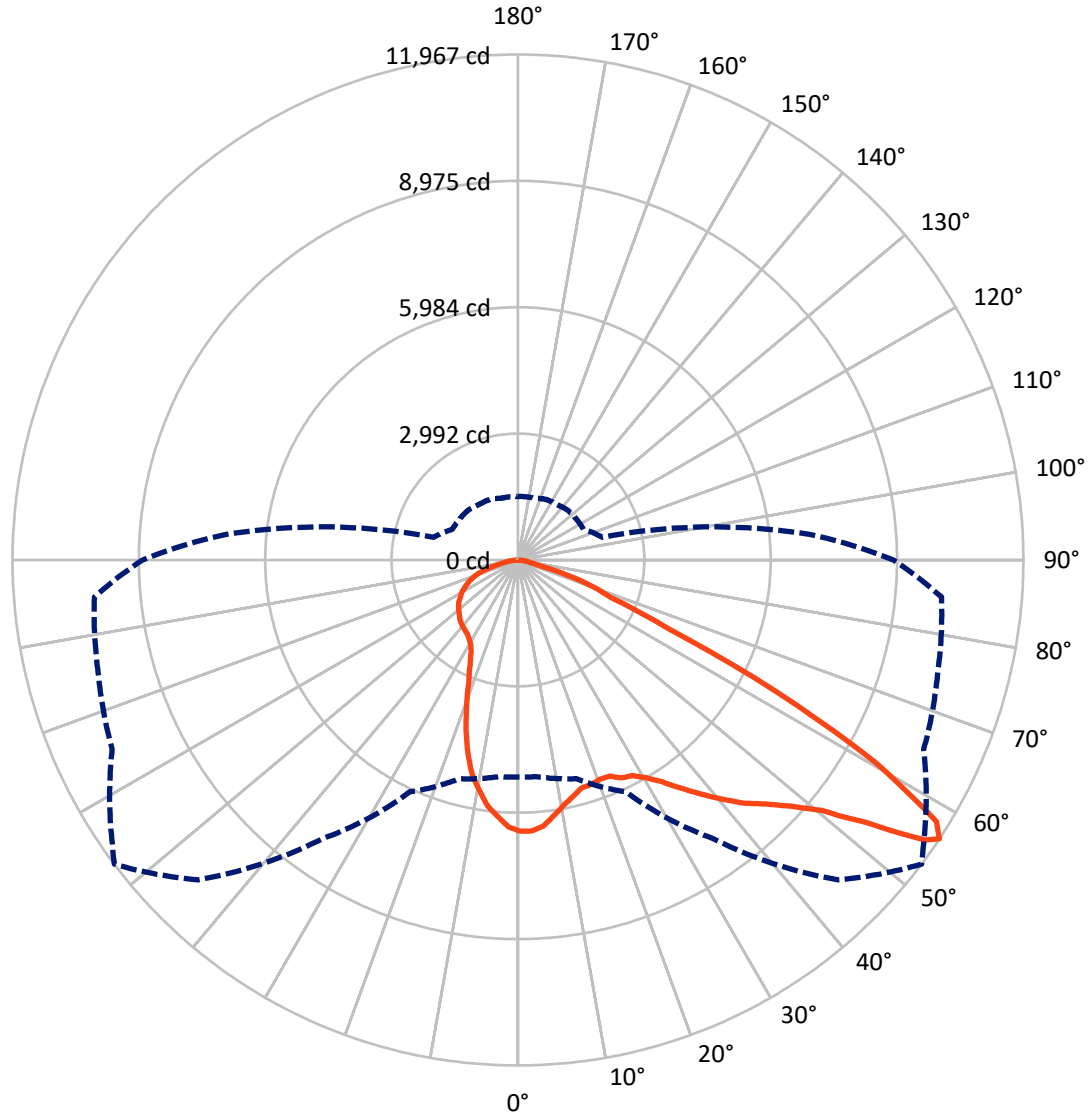
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type 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	5664.6	0.0	5664.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13746.4	0.0	13746.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	19411.0	0.0	19411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	2.9
10°-20°	1419.9	7.3
20°-30°	2093.8	10.8
30°-40°	2991.6	15.4
40°-50°	4117.6	21.2
50°-60°	4865.9	25.1
60°-70°	2593.2	13.4
70°-80°	657.9	3.4
80°-90°	102.6	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°	19411.0	100.0
0°-180°	19411.0	100.0

Coefficient of Utilization



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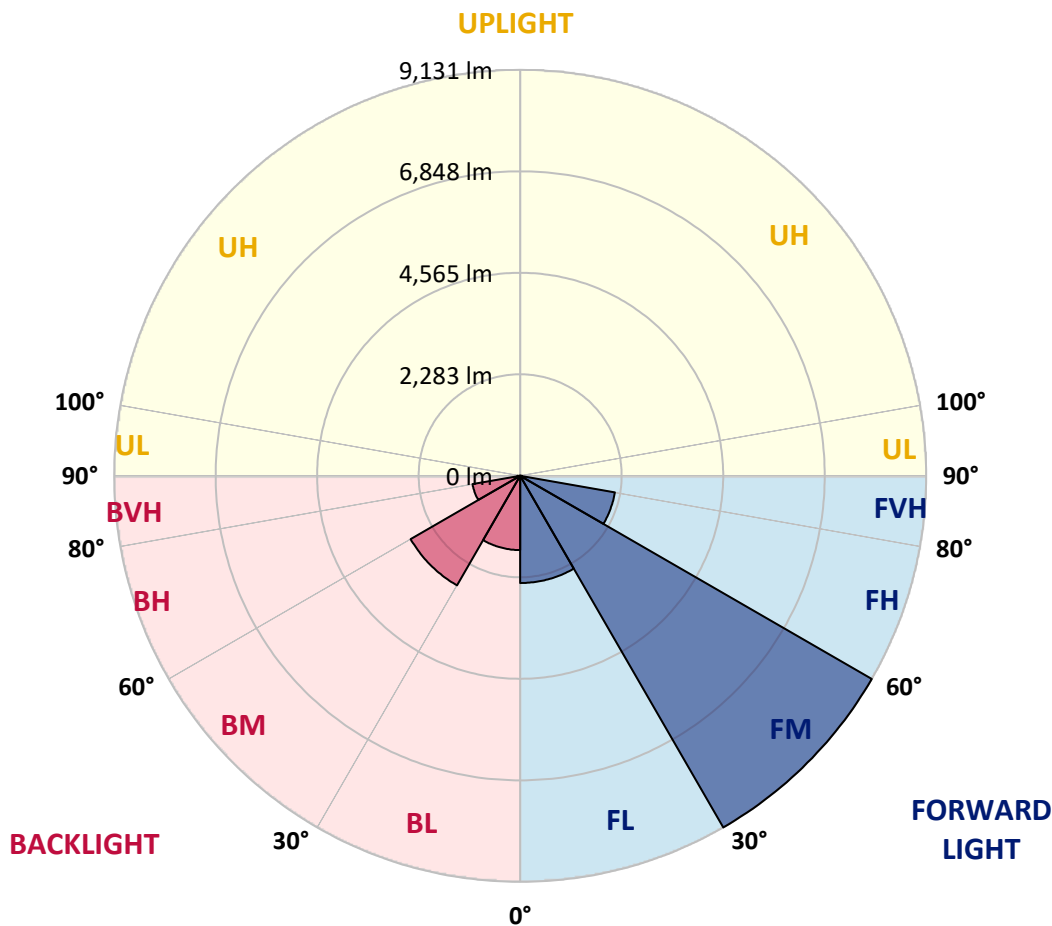
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2411.5	12.4			
FM (30°-60°)	9130.6	47.0			
FH (60°-80°)	2163.1	11.1			G2/5000
FVH (80°-90°)	41.2	0.2			G1/100
BL (0°-30°)	1670.7	8.6	B3/2500		
BM (30°-60°)	2844.5	14.7	B3/5000		
BH (60°-80°)	1087.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	61.3	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°	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9
2.5°	6342.2	6287.5	6319.8	6307.4	6409.5	6439.4	6424.4	6436.9	6494.1	6466.7	6409.5
5°	5926.4	6003.6	6018.5	6055.9	6115.6	6232.7	6324.8	6349.7	6377.1	6504.1	6491.6
7.5°	5547.9	5600.2	5572.8	5682.4	5811.9	6001.1	6113.2	6133.1	6384.6	6454.3	6506.6
10°	5308.9	5256.6	5381.1	5411.0	5557.9	5774.5	5909.0	5991.1	6220.2	6496.6	6529.0
12.5°	5087.2	5069.8	5144.5	5229.2	5393.5	5617.6	5754.6	5787.0	6140.5	6431.9	6583.8
15°	4922.9	4903.0	4977.7	5039.9	5231.7	5430.9	5605.2	5697.3	6053.4	6394.5	6536.5
17.5°	4793.4	4790.9	4833.3	4945.3	5142.0	5308.9	5590.2	5595.2	6008.6	6451.8	6576.3
20°	4785.9	4783.4	4790.9	4915.4	5094.7	5298.9	5542.9	5587.7	6008.6	6412.0	6578.8
22.5°	4848.2	4808.4	4853.2	4932.9	5062.3	5316.3	5560.4	5660.0	6153.0	6608.7	6690.9
25°	4947.8	4957.8	4982.7	5010.0	5084.7	5356.2	5714.7	5796.9	6322.3	6778.0	6845.2
27.5°	5129.6	5124.6	5134.6	5149.5	5214.2	5393.5	5777.0	5988.6	6675.9	7079.3	7012.1
30°	5396.0	5378.6	5418.4	5470.7	5411.0	5513.0	5983.7	6143.0	7004.6	7383.1	7198.8
32.5°	5637.5	5702.3	5777.0	5799.4	5727.2	5747.1	6257.6	6419.4	7278.5	7756.6	7427.9
35°	5938.8	5991.1	6090.7	6160.5	6148.0	6088.3	6631.1	6845.2	7674.4	8030.5	7669.5
37.5°	6232.7	6294.9	6459.3	6666.0	6551.4	6524.0	7029.5	7206.3	7796.4	8177.4	7846.3
40°	6705.8	6703.3	6987.2	7094.2	7196.3	7149.0	7442.9	7502.6	7861.2	8145.1	7851.2
42.5°	7261.1	7226.2	7515.1	7681.9	7813.9	7818.9	7873.6	7853.7	7891.1	7980.7	7798.9
45°	7789.0	7863.7	8155.0	8453.8	8585.8	8600.7	8237.2	8199.8	7943.4	7933.4	7699.3
47.5°	8433.9	8451.3	8690.4	9083.8	9390.1	9285.5	8707.8	8625.6	8172.5	8249.6	7866.2
50°	8471.3	8600.7	8814.9	9278.0	10219.3	10191.9	9317.9	9163.5	8541.0	8697.9	8331.8
52.5°	7689.4	7659.5	7913.5	8670.5	10157.0	11093.3	10328.9	9960.3	9332.8	9213.3	9086.3
55°	5859.2	5928.9	6153.0	6917.5	8819.9	11105.8	11705.9	11404.6	10179.5	9975.3	9828.4
56°	5139.5	5149.5	5361.1	6058.4	8047.9	10709.8	11967.3	11723.3	10600.3	10289.0	10064.9
57.5°	4260.5	4203.3	4312.8	4693.8	6792.9	9873.2	11681.0	11920.0	11093.3	10627.7	10316.4
60°	3354.1	3341.7	3296.9	3366.6	4292.9	7437.9	9723.8	10261.6	11043.5	10308.9	9880.6
62.5°	2739.1	2676.8	2766.5	2866.1	2983.1	4614.1	6832.8	7149.0	8767.6	8229.7	7422.9
65°	2124.0	2094.2	2206.2	2529.9	2599.6	2930.8	3892.0	4136.0	5176.9	5084.7	4477.2
67.5°	1461.7	1466.7	1563.8	2056.8	2410.4	2380.5	2383.0	2510.0	2701.7	2007.0	1748.0
70°	926.3	923.8	976.1	1324.7	1939.8	1959.7	1860.1	1822.7	1728.1	1045.8	1108.1
72.5°	595.1	577.7	605.1	732.1	1003.5	1160.4	1195.2	1217.7	1001.0	821.7	891.4
75°	336.2	318.7	308.8	341.1	395.9	458.2	503.0	517.9	580.2	622.5	659.9
77.5°	102.1	92.1	112.1	149.4	196.7	263.9	321.2	331.2	390.9	440.7	478.1
80°	44.8	49.8	69.7	99.6	139.4	186.8	226.6	241.5	281.4	318.7	328.7
82.5°	27.4	29.9	47.3	67.2	97.1	132.0	161.9	166.8	206.7	236.6	244.0
85°	10.0	12.5	24.9	39.8	62.3	84.7	84.7	92.1	84.7	84.7	92.1
87.5°	0.0	0.0	2.5	5.0	5.0	7.5	10.0	10.0	12.5	14.9	17.4
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°	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9	6421.9
2.5°	6439.4	6426.9	6407.0	6334.8	6327.3	6304.9	6180.4	6160.5	6180.4	6120.6	6125.6
5°	6426.9	6464.3	6314.9	6242.6	6108.2	6011.1	5899.0	5841.7	5739.6	5674.9	5747.1
7.5°	6481.7	6466.7	6280.0	6123.1	5921.4	5674.9	5478.2	5366.1	5186.8	5137.0	5174.4
10°	6461.8	6382.1	6163.0	5956.3	5575.3	5358.7	5039.9	4731.2	4561.8	4474.7	4462.2
12.5°	6434.4	6412.0	6045.9	5689.8	5288.9	4833.3	4385.0	4093.7	3817.3	3697.8	3715.2
15°	6466.7	6277.5	5826.8	5376.1	4843.2	4245.6	3762.5	3386.5	3194.8	3117.6	3117.6
17.5°	6451.8	6212.8	5722.2	5025.0	4350.2	3643.0	3112.6	2886.0	2806.3	2806.3	2828.7
20°	6459.3	6255.1	5510.6	4673.9	3767.5	3067.8	2681.8	2599.6	2634.5	2647.0	2659.4
22.5°	6501.6	6115.6	5303.9	4287.9	3227.1	2624.5	2435.3	2437.8	2500.0	2567.3	2554.8
25°	6553.9	6060.9	5052.4	3904.4	2813.8	2407.9	2348.1	2340.7	2388.0	2422.9	2427.8
27.5°	6509.1	5966.2	4795.9	3426.4	2475.1	2263.5	2251.0	2256.0	2271.0	2340.7	2318.3
30°	6656.0	5993.6	4474.7	3025.5	2288.4	2216.2	2201.2	2193.8	2216.2	2236.1	2218.7
32.5°	6837.8	5896.5	4235.6	2639.5	2196.3	2181.3	2151.4	2141.5	2153.9	2134.0	2144.0
35°	6917.5	5879.1	3924.4	2363.1	2124.0	2111.6	2094.2	2091.7	2094.2	2076.7	2061.8
37.5°	6962.3	5961.3	3568.3	2236.1	2079.2	2091.7	2051.8	2046.8	2002.0	2012.0	2019.5
40°	7039.5	5834.3	3279.4	2114.1	2051.8	2026.9	1992.1	1984.6	1954.7	1937.3	1954.7
42.5°	6927.4	5796.9	2995.6	2061.8	2012.0	1984.6	1959.7	1917.4	1907.4	1892.5	1882.5
45°	6837.8	5582.8	2741.6	1997.0	1964.7	1949.7	1902.4	1857.6	1820.3	1835.2	1812.8
47.5°	6905.0	5508.1	2490.1	1942.3	1899.9	1882.5	1835.2	1800.3	1763.0	1745.5	1740.6
50°	7173.9	5647.5	2278.4	1902.4	1845.2	1835.2	1772.9	1733.1	1698.2	1685.8	1690.8
52.5°	7816.4	6028.5	2134.0	1820.3	1792.9	1748.0	1713.2	1663.4	1641.0	1601.1	1626.0
55°	8630.6	6648.5	2096.6	1743.1	1728.1	1688.3	1641.0	1603.6	1561.3	1528.9	1521.4
56°	8892.1	6944.8	2066.8	1713.2	1688.3	1665.9	1603.6	1581.2	1514.0	1506.5	1501.5
57.5°	9103.7	7206.3	2071.7	1655.9	1631.0	1611.1	1573.7	1519.0	1474.1	1446.7	1459.2
60°	8625.6	6745.6	1977.1	1568.8	1563.8	1526.4	1474.1	1449.2	1394.4	1362.1	1354.6
62.5°	6412.0	4579.3	1603.6	1456.7	1454.2	1414.4	1354.6	1327.2	1317.3	1272.4	1272.4
65°	3692.8	2871.1	1387.0	1364.6	1344.6	1304.8	1245.0	1222.6	1197.7	1182.8	1170.3
67.5°	1576.2	1489.1	1260.0	1257.5	1235.1	1185.3	1125.5	1090.7	1058.3	1028.4	1043.3
70°	1142.9	1160.4	1138.0	1125.5	1098.1	1035.9	983.6	941.3	891.4	871.5	886.5
72.5°	906.4	943.7	976.1	978.6	946.2	874.0	816.7	759.5	704.7	677.3	689.8
75°	687.3	712.2	744.5	752.0	704.7	654.9	600.1	540.3	498.0	465.6	470.6
77.5°	495.5	490.5	520.4	515.4	493.0	458.2	408.4	353.6	306.3	276.4	278.9
80°	338.7	346.1	363.6	361.1	333.7	311.3	273.9	229.1	194.2	169.3	164.3
82.5°	236.6	249.0	263.9	251.5	229.1	206.7	179.3	146.9	119.5	99.6	94.6
85°	84.7	97.1	112.1	119.5	127.0	122.0	102.1	82.2	59.8	49.8	47.3
87.5°	17.4	19.9	22.4	22.4	22.4	19.9	17.4	17.4	14.9	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)