

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: P530184

Luminaire Tested: **GALN-SA5B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17722 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

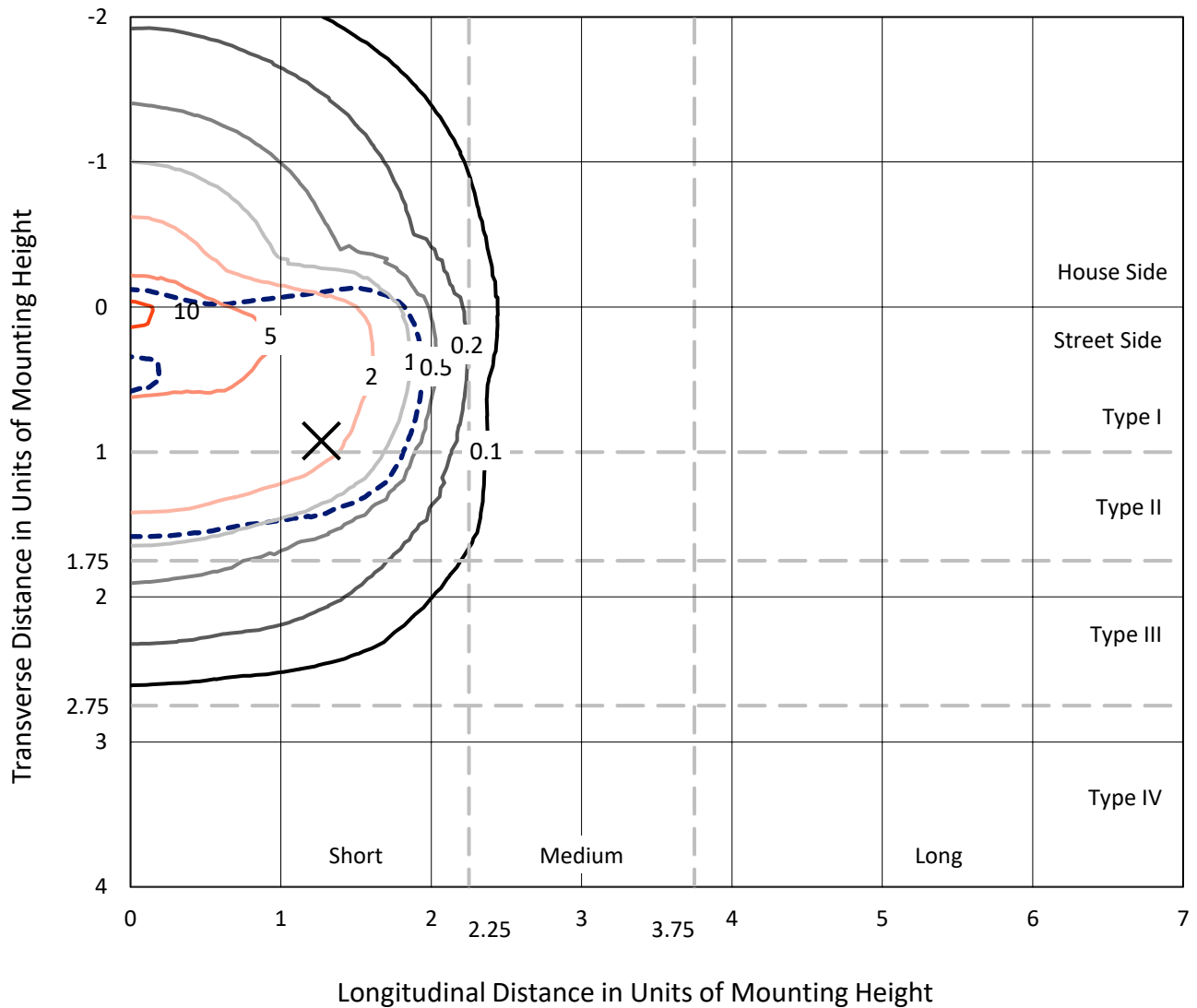
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

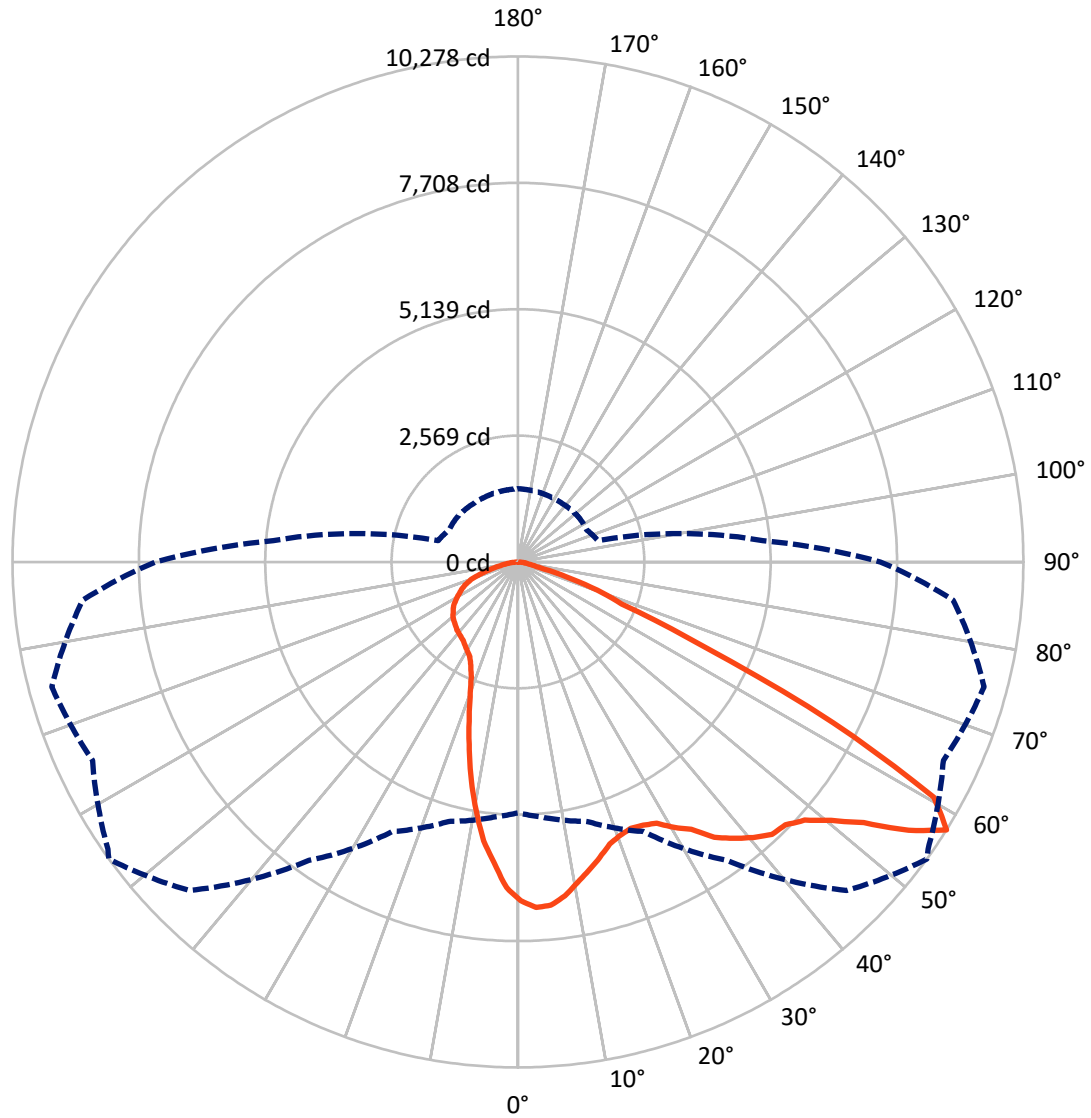
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4902.9	0.0	4902.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	12819.1	0.0	12819.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	17722.0	0.0	17722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.1	3.4
10°-20°	1375.4	7.8
20°-30°	1932.5	10.9
30°-40°	2701.7	15.2
40°-50°	3657.6	20.6
50°-60°	4455.1	25.1
60°-70°	2320.4	13.1
70°-80°	594.6	3.4
80°-90°	90.7	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°	17722.0	100.0
0°-180°	17722.0	100.0

Coefficient of Utilization



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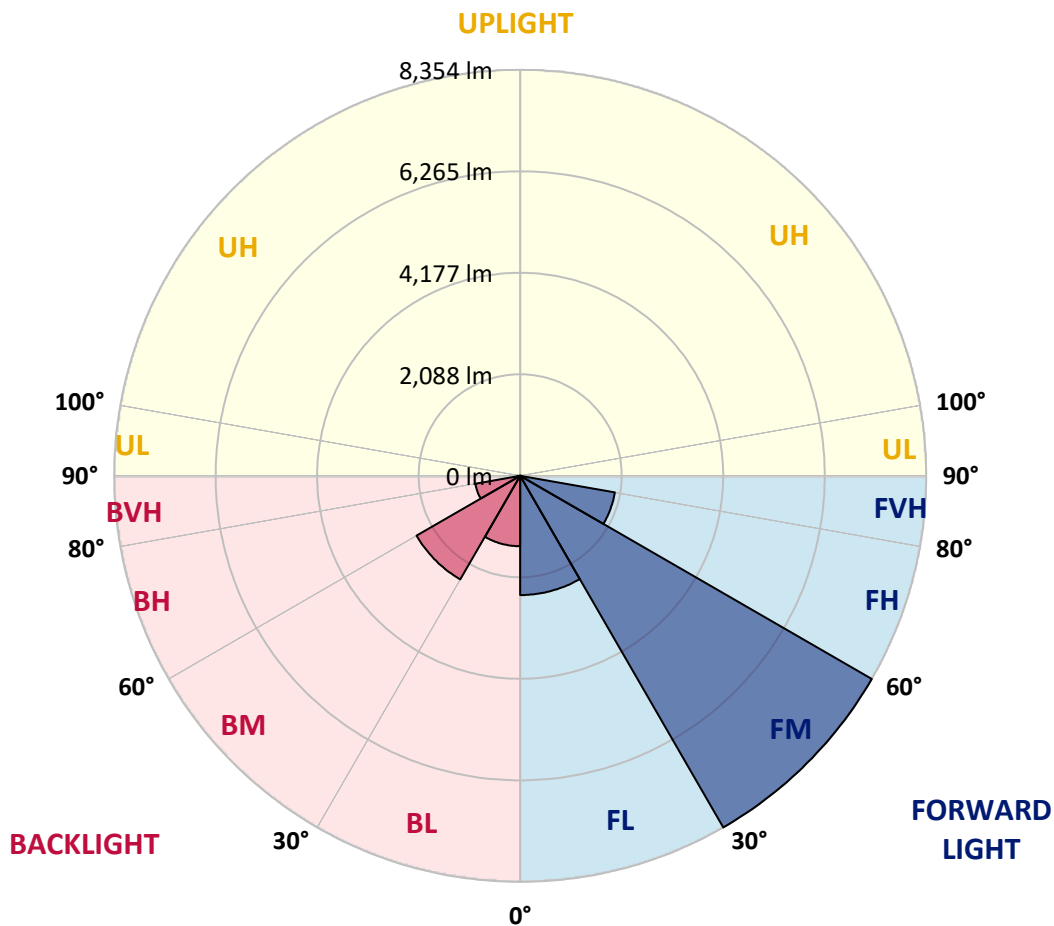
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2453.0	13.8			
FM (30°-60°)	8353.6	47.1			
FH (60°-80°)	1978.3	11.2			G2/5000
FVH (80°-90°)	34.3	0.2			G1/100
BL (0°-30°)	1449.1	8.2	B3/2500		
BM (30°-60°)	2460.7	13.9	B2/2500		
BH (60°-80°)	936.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3
2.5°	7084.2	7056.9	7061.5	7097.9	7052.3	7034.1	7034.1	6945.3	6952.1	6890.6	6874.7
5°	6920.2	6856.4	6899.7	6954.4	6963.5	6981.7	7011.3	6988.6	6924.8	6858.7	6751.7
7.5°	6492.0	6548.9	6564.9	6603.6	6685.6	6760.8	6854.2	6790.4	6788.1	6722.1	6658.3
10°	6116.1	6082.0	6168.5	6225.5	6362.1	6487.4	6630.9	6624.1	6658.3	6583.1	6473.8
12.5°	5742.6	5715.2	5756.2	5886.1	6077.4	6259.6	6430.5	6366.7	6548.9	6535.3	6300.6
15°	5346.2	5366.7	5425.9	5546.7	5797.2	6015.9	6232.3	6234.6	6396.3	6451.0	6136.6
17.5°	5068.3	5045.5	5120.7	5300.6	5523.9	5785.8	6031.9	6082.0	6330.3	6362.1	6086.5
20°	4861.0	4892.9	4990.9	5082.0	5339.4	5656.0	5933.9	5952.1	6316.6	6403.1	6006.8
22.5°	4810.9	4792.7	4824.6	4972.6	5184.5	5528.4	5881.5	5949.8	6314.3	6389.5	5856.5
25°	4758.5	4817.7	4815.5	4963.5	5118.4	5425.9	5924.8	6000.0	6435.0	6460.1	5877.0
27.5°	4877.0	4870.1	4933.9	4945.3	5136.6	5453.3	6015.9	6072.9	6635.5	6615.0	5892.9
30°	4995.4	4961.2	5000.0	5134.4	5223.2	5610.4	6266.5	6261.9	6895.2	6881.5	5943.0
32.5°	5141.2	5125.3	5150.3	5268.8	5419.1	5820.0	6478.3	6612.7	7159.4	7246.0	6116.1
35°	5168.5	5234.6	5293.8	5453.3	5667.4	6159.4	6876.9	6988.6	7464.6	7735.7	6446.4
37.5°	5341.7	5366.7	5505.7	5788.1	5984.0	6612.7	7129.8	7200.4	7742.5	8050.1	6794.9
40°	5526.2	5555.8	5765.3	6061.5	6330.3	6908.8	7366.7	7389.5	7831.4	8291.5	7022.7
42.5°	5776.7	5804.1	6011.4	6382.6	6742.6	7161.7	7576.3	7601.3	7824.6	8569.4	7384.9
45°	6036.4	6102.5	6346.2	6767.6	7091.1	7457.8	7624.1	7726.6	7888.3	8817.7	7678.8
47.5°	6400.9	6462.4	6662.8	7075.1	7453.3	7717.5	7845.1	7945.3	8041.0	9034.1	7867.8
50°	6788.1	6799.5	7043.2	7416.8	7694.7	8011.3	8257.4	8291.5	8241.4	9284.7	8189.0
52.5°	7072.8	7109.3	7298.4	7662.8	8077.4	8466.9	8804.0	8840.5	8742.5	9378.1	8298.4
55°	6601.3	6580.8	6888.3	7373.5	8334.8	9145.7	9635.5	9662.8	9107.0	9667.4	8656.0
57.5°	5102.5	5200.4	5462.4	6047.8	7405.4	9446.4	10277.8	10179.9	9544.4	9813.1	8883.8
60°	3708.4	3685.6	3861.0	4252.8	5580.8	8141.2	9717.5	9817.7	9186.7	8845.0	7325.7
62.5°	3020.5	2988.6	3002.3	3015.9	3601.3	5403.2	7193.6	7191.3	7075.1	6357.6	4940.7
65°	2414.6	2489.7	2496.6	2599.1	2674.2	3227.8	4168.5	4391.8	3824.6	3136.7	2275.6
67.5°	1820.0	1792.7	1883.8	2248.3	2389.5	2330.3	2275.6	2300.7	1635.5	1179.9	1111.6
70°	1072.9	1061.5	1170.8	1567.2	1968.1	1851.9	1715.3	1717.5	1123.0	824.6	918.0
72.5°	587.7	585.4	608.2	795.0	1118.4	1161.7	1029.6	1061.5	669.7	667.4	717.5
75°	328.0	321.2	314.3	350.8	403.2	426.0	435.1	439.6	460.1	514.8	535.3
77.5°	120.7	116.2	116.2	134.4	170.8	214.1	271.1	275.6	325.7	373.6	394.1
80°	41.0	45.6	61.5	84.3	113.9	152.6	184.5	189.1	230.1	262.0	268.8
82.5°	25.1	27.3	41.0	59.2	82.0	107.1	136.7	139.0	170.8	191.3	200.5
85°	11.4	13.7	22.8	36.4	52.4	70.6	72.9	72.9	70.6	72.9	68.3
87.5°	0.0	0.0	4.6	4.6	4.6	6.8	9.1	6.8	11.4	13.7	13.7
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°	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3	6888.3
2.5°	6826.8	6801.8	6724.3	6656.0	6635.5	6544.4	6410.0	6425.9	6328.0	6373.5	6325.7
5°	6733.4	6649.2	6451.0	6366.7	6145.7	6045.5	5977.2	5806.3	5726.6	5710.7	5642.3
7.5°	6494.3	6441.9	6193.6	5965.8	5731.2	5530.7	5273.3	5097.9	4972.6	4938.5	4838.2
10°	6305.2	6189.0	5845.1	5498.8	5164.0	4815.5	4480.6	4218.7	4091.1	3943.0	3892.9
12.5°	6118.4	5943.0	5478.3	5034.1	4601.3	4161.7	3756.2	3437.3	3159.4	3093.4	3070.6
15°	6002.2	5697.0	5150.3	4615.0	4000.0	3425.9	3020.5	2810.9	2640.1	2569.5	2619.6
17.5°	5849.6	5494.3	4836.0	4123.0	3446.4	2918.0	2578.6	2448.7	2387.2	2394.1	2373.6
20°	5658.3	5302.9	4423.7	3676.5	2952.1	2530.7	2337.1	2289.3	2298.4	2314.3	2307.5
22.5°	5521.6	5070.6	4125.3	3220.9	2551.2	2316.6	2236.9	2202.7	2232.3	2246.0	2234.6
25°	5416.8	4872.4	3763.1	2817.7	2318.9	2195.9	2159.4	2157.2	2202.7	2220.9	2209.6
27.5°	5321.2	4687.9	3403.2	2510.2	2164.0	2102.5	2091.1	2118.4	2148.0	2166.3	2182.2
30°	5264.2	4546.7	3066.0	2252.8	2086.5	2056.9	2036.4	2061.5	2077.4	2095.7	2086.5
32.5°	5318.9	4446.4	2740.3	2107.0	2022.8	1993.2	2020.5	2004.5	2031.9	2047.8	2022.8
35°	5489.7	4357.6	2508.0	2029.6	1949.9	1961.3	1965.8	1959.0	1970.4	1956.7	1986.3
37.5°	5658.3	4325.7	2293.8	1963.5	1915.7	1915.7	1911.1	1897.5	1920.3	1915.7	1929.4
40°	5872.4	4346.2	2111.6	1892.9	1883.8	1879.3	1861.0	1858.8	1849.6	1851.9	1856.5
42.5°	6059.2	4391.8	2006.8	1847.4	1854.2	1863.3	1829.1	1801.8	1813.2	1790.4	1790.4
45°	6257.4	4432.8	1913.4	1815.5	1808.6	1806.4	1779.0	1763.1	1754.0	1756.3	1776.8
47.5°	6569.4	4492.0	1842.8	1772.2	1776.8	1742.6	1735.8	1715.3	1724.4	1738.0	1740.3
50°	6790.4	4617.3	1788.1	1722.1	1738.0	1715.3	1674.2	1665.1	1665.1	1687.9	1683.4
52.5°	6945.3	4792.7	1735.8	1667.4	1674.2	1656.0	1642.4	1621.9	1608.2	1640.1	1656.0
55°	7419.1	5084.2	1722.1	1621.9	1619.6	1601.4	1576.3	1555.8	1549.0	1553.5	1585.4
57.5°	7373.5	4993.1	1678.8	1542.1	1537.6	1512.5	1487.5	1480.6	1478.4	1482.9	1492.0
60°	5986.3	3687.9	1498.9	1451.0	1444.2	1439.6	1414.6	1387.2	1373.6	1387.2	1375.8
62.5°	3961.3	2469.2	1321.2	1341.7	1346.2	1334.8	1293.8	1266.5	1271.1	1287.0	1262.0
65°	1945.3	1451.0	1198.2	1252.8	1257.4	1225.5	1186.8	1154.9	1138.9	1152.6	1141.2
67.5°	1111.6	1109.3	1097.9	1154.9	1152.6	1120.7	1059.2	1031.9	1004.5	1009.1	1002.3
70°	943.0	961.3	984.0	1018.2	1015.9	979.5	906.6	886.1	847.4	842.8	831.4
72.5°	742.6	774.5	824.6	849.7	829.2	783.6	735.8	701.6	667.4	646.9	653.8
75°	551.2	596.8	624.1	640.1	608.2	583.1	544.4	503.4	462.4	444.2	437.4
77.5°	400.9	414.6	439.6	451.0	430.5	405.5	382.7	341.7	303.0	277.9	271.1
80°	280.2	289.3	307.5	307.5	307.5	296.1	266.5	225.5	200.5	177.7	173.1
82.5°	195.9	205.0	223.2	214.1	211.8	198.2	180.0	148.1	120.7	104.8	100.2
85°	68.3	75.2	91.1	109.3	116.2	113.9	102.5	82.0	63.8	52.4	47.8
87.5°	15.9	15.9	18.2	15.9	15.9	18.2	15.9	15.9	15.9	11.4	9.1
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)