

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: P455086

Luminaire Tested: **GALN-SA6B-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28877 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

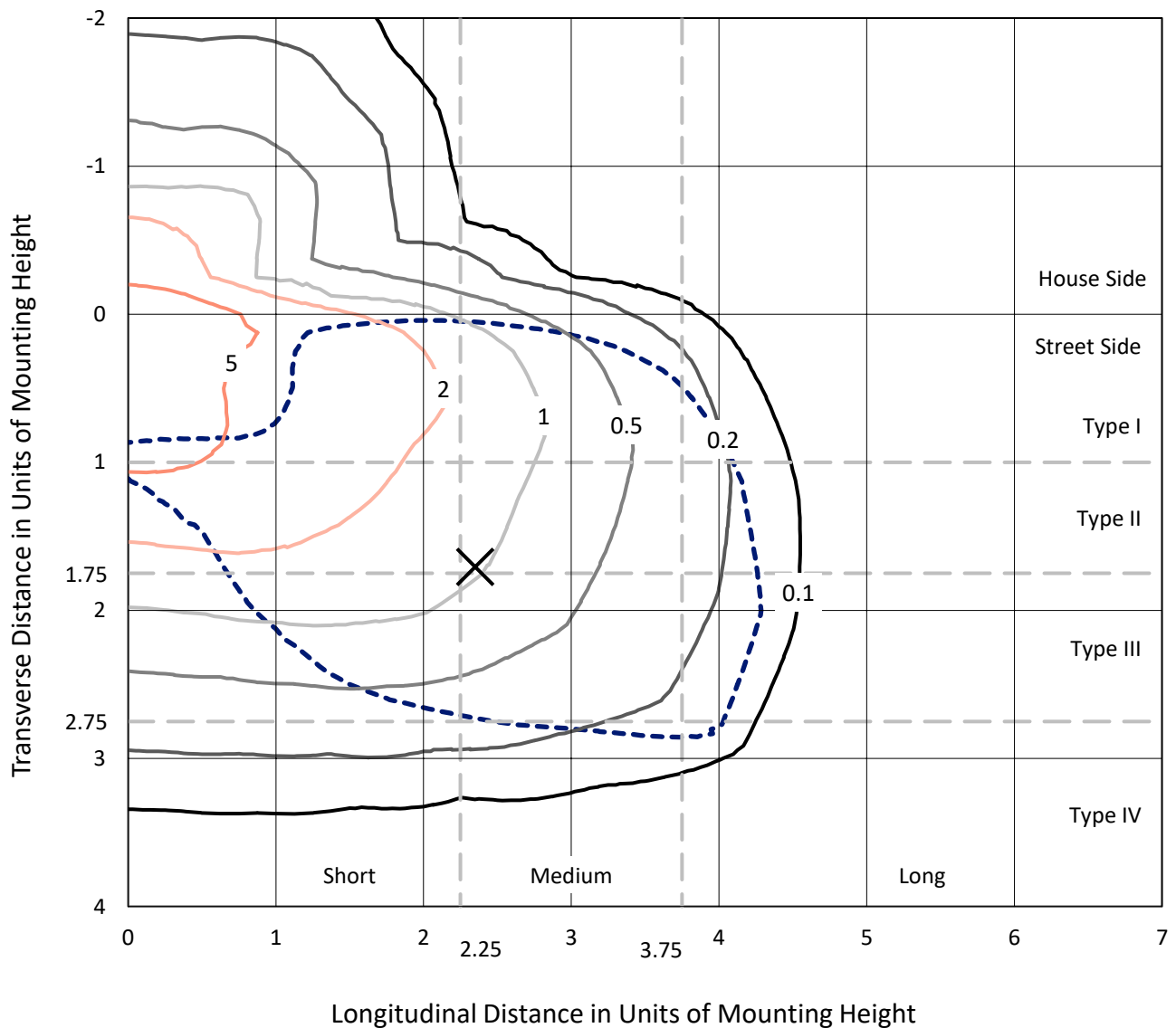
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

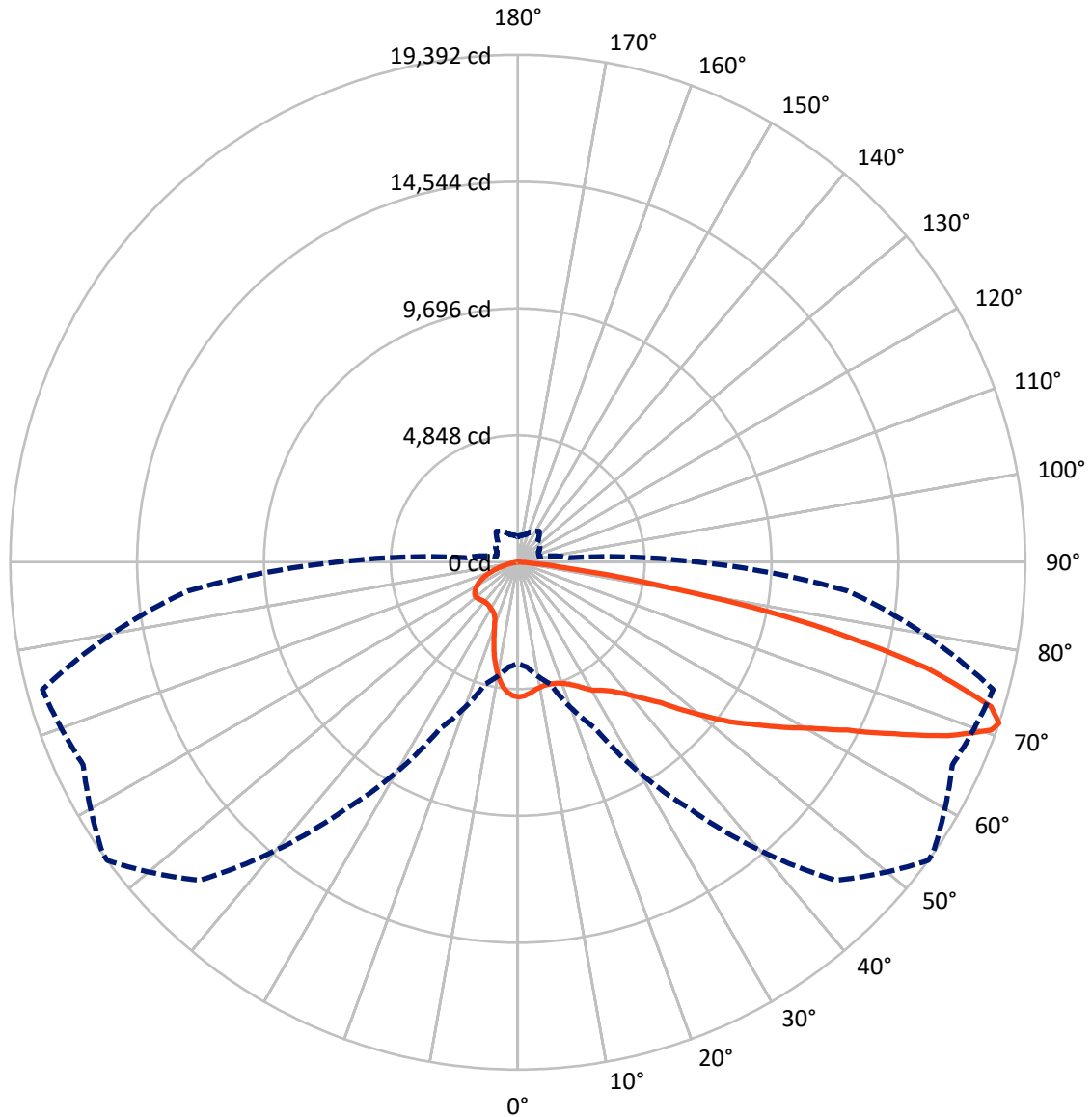
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5213.6	0.0	5213.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23663.4	0.0	23663.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	28877.0	0.0	28877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.1	1.6
10°-20°	1212.3	4.2
20°-30°	2018.6	7.0
30°-40°	2984.8	10.3
40°-50°	4204.2	14.6
50°-60°	5629.6	19.5
60°-70°	7095.7	24.6
70°-80°	4846.4	16.8
80°-90°	426.2	1.5
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°	28877.0	100.0
0°-180°	28877.0	100.0

Coefficient of Utilization



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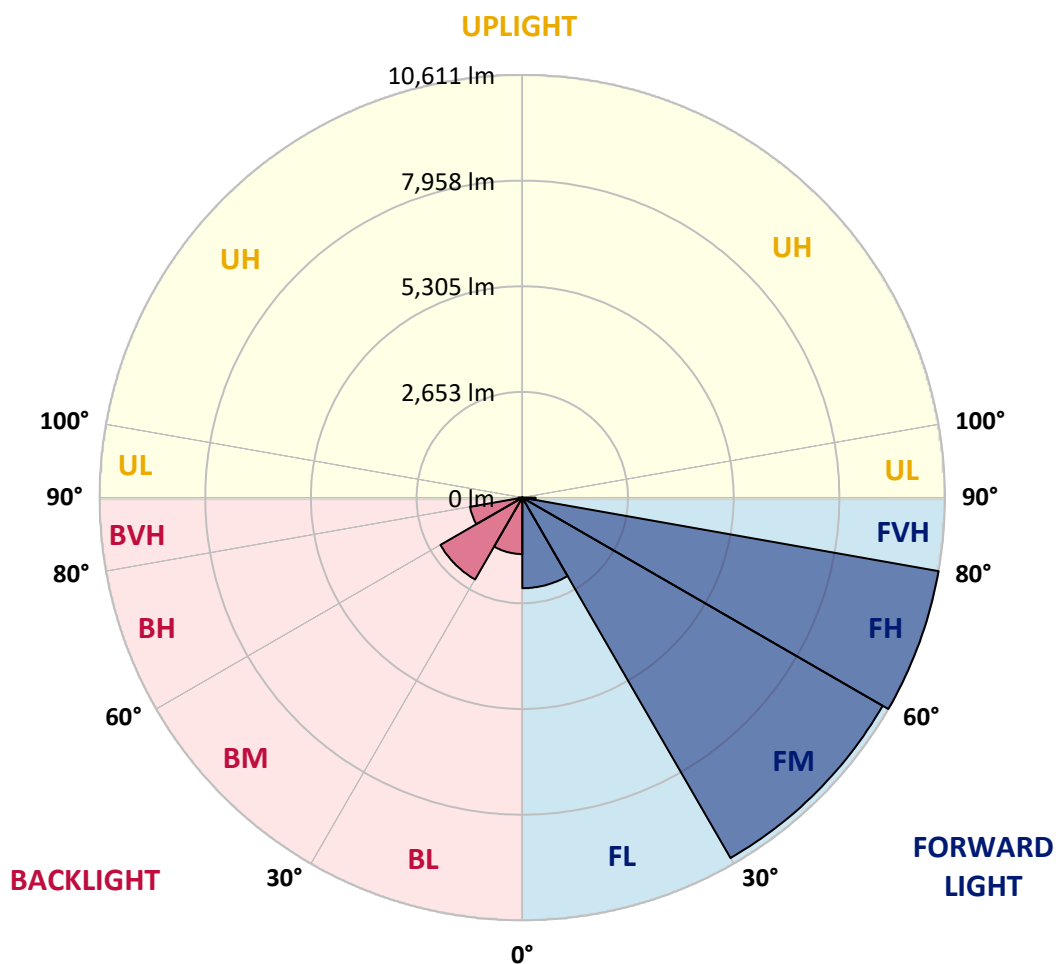
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2273.1	7.9			
FM	(30°-60°)	10446.7	36.2			
FH	(60°-80°)	10610.5	36.7			G4/12000
FVH	(80°-90°)	333.1	1.2			G3/500
BL	(0°-30°)	1416.9	4.9	B3/2500		
BM	(30°-60°)	2372.0	8.2	B2/2500		
BH	(60°-80°)	1331.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	93.1	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1
2.5°	4977.4	5000.8	5007.0	5022.6	5055.4	5081.9	5108.4	5105.3	5142.7	5158.3	5172.4
5°	4755.9	4762.1	4785.5	4816.7	4874.4	4947.7	5019.5	5021.1	5113.1	5186.4	5222.3
7.5°	4593.7	4613.9	4629.5	4662.3	4723.1	4802.7	4916.6	4925.9	5089.7	5234.8	5311.2
10°	4487.6	4511.0	4528.2	4568.7	4629.5	4718.5	4841.7	4858.8	5072.5	5311.2	5445.3
12.5°	4390.9	4414.3	4429.9	4482.9	4562.5	4671.7	4810.5	4830.8	5078.8	5400.1	5592.0
15°	4450.2	4468.9	4462.6	4478.2	4531.3	4656.1	4823.0	4843.2	5102.2	5485.9	5737.0
17.5°	4713.8	4729.4	4677.9	4618.6	4593.7	4685.7	4862.0	4883.8	5149.0	5574.8	5885.2
20°	5102.2	5144.3	5032.0	4899.4	4779.3	4791.8	4943.1	4966.5	5214.5	5663.7	6036.5
22.5°	5607.6	5638.7	5501.5	5283.1	5061.6	4947.7	5064.7	5078.8	5312.7	5779.1	6201.8
25°	6201.8	6220.6	6030.3	5749.5	5429.7	5214.5	5231.6	5256.6	5475.0	5910.2	6348.5
27.5°	6779.0	6838.2	6618.3	6275.2	5854.0	5495.2	5460.9	5476.5	5651.2	5983.5	6449.9
30°	7463.7	7459.1	7226.6	6828.9	6289.2	5801.0	5677.7	5674.6	5746.4	6019.3	6523.2
32.5°	8009.7	8073.6	7845.9	7412.3	6786.8	6117.6	5827.5	5821.2	5819.7	6081.7	6632.4
35°	8630.5	8639.8	8430.8	7994.1	7324.9	6515.4	6036.5	6005.3	5969.4	6215.9	6780.5
37.5°	9185.8	9229.5	9037.6	8547.8	7853.7	6928.7	6323.5	6303.2	6194.0	6448.3	7017.6
40°	9619.4	9652.2	9536.7	9070.4	8374.7	7374.8	6688.5	6651.1	6518.5	6828.9	7334.3
42.5°	9761.4	9828.4	9873.7	9644.4	8973.6	7903.6	7137.7	7090.9	6989.6	7406.0	7699.3
45°	9772.3	9878.3	10117.0	10127.9	9575.7	8536.9	7661.8	7629.1	7621.3	8145.4	8212.5
47.5°	9689.6	9797.2	10198.1	10414.9	10112.3	9176.4	8418.3	8366.9	8371.6	9059.4	8788.0
50°	9489.9	9617.8	10104.5	10599.0	10531.9	9840.9	9217.0	9199.8	9296.5	10103.0	9385.4
52.5°	9114.0	9268.4	10007.8	10714.4	10843.9	10413.4	10124.8	10076.4	10321.3	11235.4	10039.0
55°	8073.6	8306.0	9653.7	10778.4	11140.2	10960.9	10942.1	11029.5	11353.9	12470.8	10758.1
57.5°	7530.8	7705.5	8884.7	10789.3	11514.6	11597.3	11896.7	11918.6	12486.4	13782.6	11570.7
60°	7234.4	7388.9	8463.6	10717.5	12037.1	12385.0	12873.2	12951.2	13592.3	15203.6	12413.0
62.5°	6975.5	7108.1	8210.9	10469.5	12626.7	13553.3	14138.2	14175.6	14847.9	16772.7	13244.4
65°	6365.6	6516.9	7702.4	10221.5	13135.2	15013.3	15816.6	15772.9	16184.7	18126.7	13765.4
67.5°	5543.6	5735.5	6752.5	9365.2	13386.4	16609.0	17707.1	17652.5	17504.3	19014.2	13915.2
70°	4493.8	4596.8	5537.4	7884.9	12383.4	17446.6	19199.8	19142.1	18321.6	19131.2	13207.0
71°	3866.8	4027.5	4821.4	7003.6	11548.9	17190.8	19391.7	19376.1	18323.2	18808.3	12673.5
72.5°	3018.3	3116.5	3818.4	5426.6	9815.9	15737.0	18917.5	18976.8	17925.4	17911.4	11573.9
75°	1909.2	1952.9	2395.9	3194.5	5386.1	11144.9	16148.8	16309.5	15916.4	14660.7	8607.1
77.5°	1109.0	1165.2	1435.0	1882.7	2327.3	6049.0	11555.1	11729.8	11059.1	8072.1	3523.6
80°	645.8	708.2	945.3	1093.4	1068.5	2244.6	5883.6	6181.6	4788.6	2038.7	988.9
82.5°	358.8	400.9	664.5	666.0	569.3	733.1	1851.5	1937.3	1366.4	822.0	404.0
85°	260.5	294.8	429.0	388.4	273.0	315.1	644.2	675.4	552.2	346.3	131.0
87.5°	92.0	131.0	235.5	187.2	74.9	65.5	185.6	151.3	140.4	96.7	29.6
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°	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1	5152.1
2.5°	5180.2	5183.3	5167.7	5139.6	5111.5	5075.7	5035.1	5003.9	4989.9	4988.3	4986.7
5°	5236.3	5244.1	5184.8	5097.5	5000.8	4882.2	4780.8	4665.4	4635.8	4589.0	4603.0
7.5°	5326.8	5322.1	5205.1	5019.5	4793.3	4542.2	4330.1	4206.8	4078.9	4043.1	4044.6
10°	5456.2	5426.6	5205.1	4860.4	4482.9	4110.1	3813.8	3626.6	3525.2	3441.0	3409.8
12.5°	5593.5	5518.6	5155.2	4637.3	4083.6	3626.6	3308.4	3055.7	2990.2	2921.5	2923.1
15°	5724.5	5599.8	5056.9	4323.8	3653.1	3110.3	2801.4	2650.1	2629.9	2637.7	2636.1
17.5°	5843.1	5657.5	4907.2	3974.4	3150.8	2667.3	2503.5	2514.4	2569.0	2608.0	2612.7
20°	5963.2	5691.8	4684.1	3506.5	2676.7	2399.0	2405.2	2491.0	2573.7	2626.7	2634.5
22.5°	6077.1	5707.4	4422.1	3054.1	2333.5	2285.1	2377.2	2469.2	2550.3	2601.8	2609.6
25°	6151.9	5671.5	4050.9	2581.5	2165.0	2244.6	2341.3	2419.3	2487.9	2540.9	2553.4
27.5°	6172.2	5556.1	3590.7	2199.3	2087.0	2205.6	2294.5	2352.2	2405.2	2455.2	2464.5
30°	6161.3	5386.1	3085.3	1974.7	2041.8	2160.4	2229.0	2271.1	2335.1	2374.0	2381.8
32.5°	6144.1	5188.0	2558.1	1854.6	2004.4	2118.2	2158.8	2196.2	2194.7	2179.1	2190.0
35°	6150.4	4950.9	2130.7	1782.9	1971.6	2087.0	2121.4	2074.6	1940.4	1934.2	1927.9
37.5°	6183.1	4716.9	1820.3	1733.0	1954.5	2082.4	2101.1	1885.8	1767.3	1712.7	1698.6
40°	6267.4	4443.9	1616.0	1695.5	1952.9	2118.2	2009.0	1790.7	1562.9	1456.9	1449.1
42.5°	6379.7	4175.6	1491.2	1672.1	1971.6	2172.8	1971.6	1656.5	1408.5	1346.1	1336.8
45°	6546.6	3868.4	1422.6	1661.2	1999.7	2193.1	1959.1	1558.3	1346.1	1296.2	1296.2
47.5°	6735.3	3575.1	1385.1	1653.4	2035.6	2179.1	1848.4	1527.1	1316.5	1322.7	1352.4
50°	6922.5	3320.9	1357.0	1636.3	2066.8	2171.3	1803.2	1525.5	1324.3	1403.8	1456.9
52.5°	7139.3	3141.5	1322.7	1608.2	2066.8	2121.4	1789.1	1556.7	1346.1	1369.5	1392.9
55°	7401.3	3085.3	1279.1	1547.3	2029.3	1996.6	1781.3	1601.9	1361.7	1307.1	1316.5
57.5°	7747.6	3175.8	1236.9	1470.9	1943.5	1867.1	1778.2	1614.4	1325.8	1280.6	1271.3
60°	8150.1	3355.2	1224.5	1392.9	1826.5	1756.4	1759.5	1578.5	1275.9	1229.1	1236.9
62.5°	8432.4	3462.8	1216.7	1333.6	1698.6	1634.7	1714.2	1534.9	1254.1	1213.5	1221.3
65°	8432.4	3331.8	1144.9	1243.2	1533.3	1488.1	1659.6	1480.3	1226.0	1179.2	1171.4
67.5°	8112.6	2949.6	1035.7	1107.5	1350.8	1321.2	1583.2	1414.8	1183.9	1148.0	1129.3
70°	7279.7	2236.8	898.5	948.4	1120.0	1146.5	1484.9	1325.8	1113.7	1070.0	1042.0
71°	6913.1	1948.2	840.7	867.3	1031.0	1070.0	1438.2	1288.4	1082.5	1020.1	970.2
72.5°	6206.5	1640.9	753.4	764.3	881.3	951.5	1339.9	1216.7	1023.2	934.3	878.2
75°	4715.3	1197.9	606.8	600.5	652.0	755.0	1134.0	1084.1	896.9	776.8	744.0
77.5°	2037.1	652.0	453.9	458.6	443.0	572.5	892.2	931.2	769.0	631.7	602.1
80°	617.7	375.9	310.4	316.6	296.4	383.7	628.6	730.0	617.7	491.3	450.8
82.5°	316.6	224.6	212.1	209.0	188.7	216.8	380.6	499.1	441.4	307.3	271.4
85°	137.3	120.1	104.5	101.4	88.9	78.0	135.7	249.6	234.0	171.6	163.8
87.5°	34.3	31.2	20.3	18.7	10.9	1.6	0.0	0.0	0.0	0.0	0.0
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)