

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638393

Luminaire Tested: GWS-SA4E-760-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31387.3 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

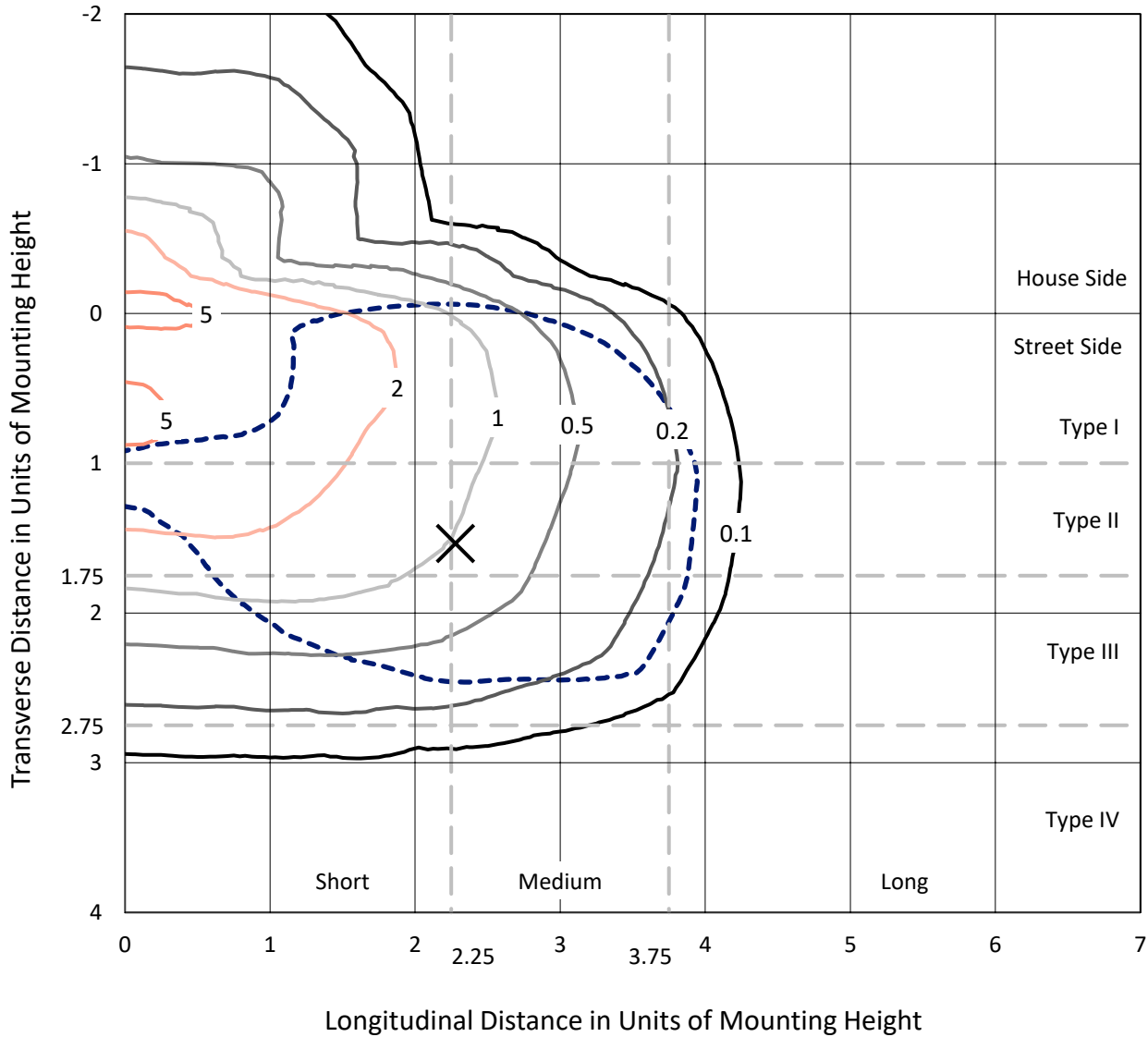
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

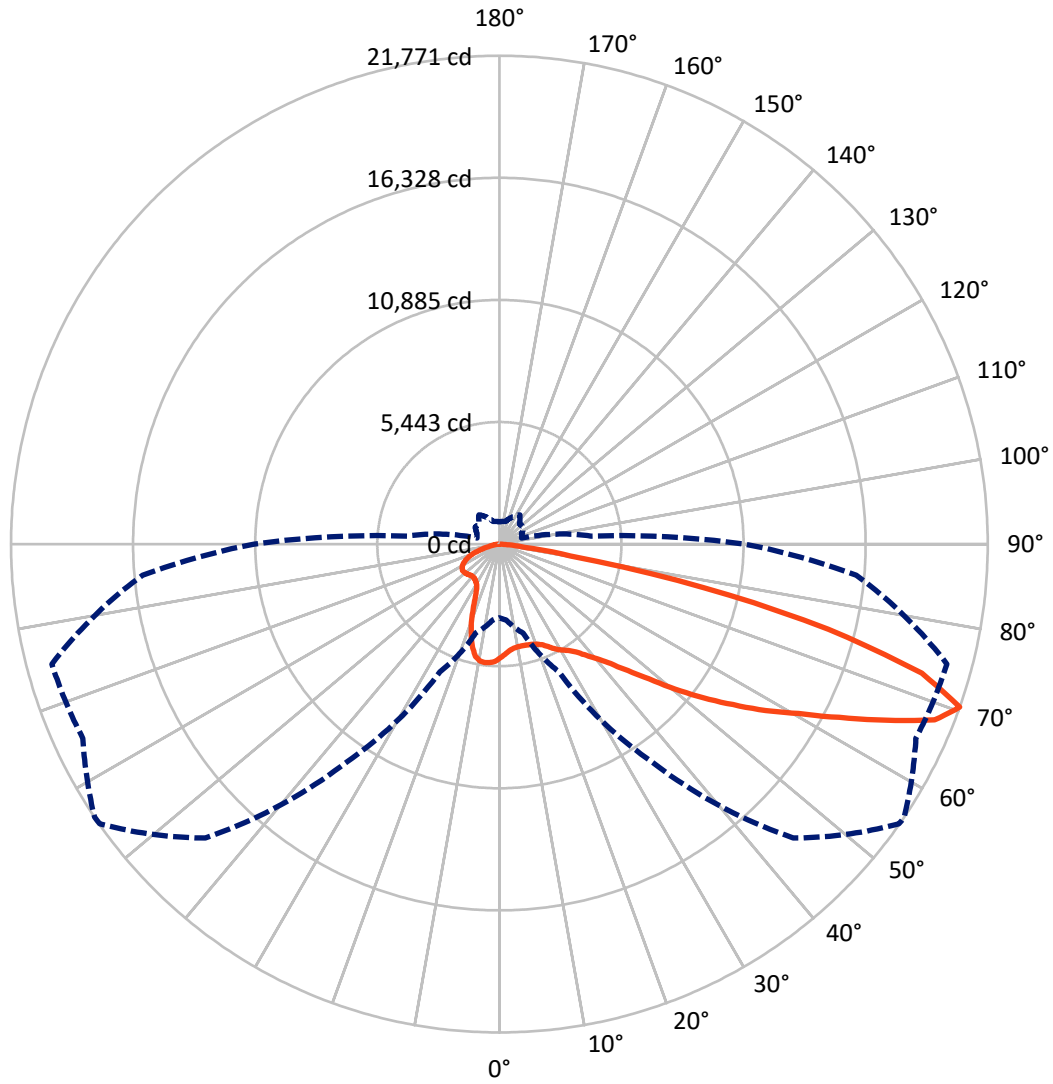
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6034.3	0.0	6034.3
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	25353.0	0.0	25353.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	31387.3	0.0	31387.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.8	1.5
10°-20°	1270.3	4.0
20°-30°	2100.2	6.7
30°-40°	3140.1	10.0
40°-50°	4672.9	14.9
50°-60°	6643.5	21.2
60°-70°	8228.2	26.2
70°-80°	4543.3	14.5
80°-90°	320.0	1.0
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°	31387.3	100.0
0°-180°	31387.3	100.0

Coefficient of Utilization



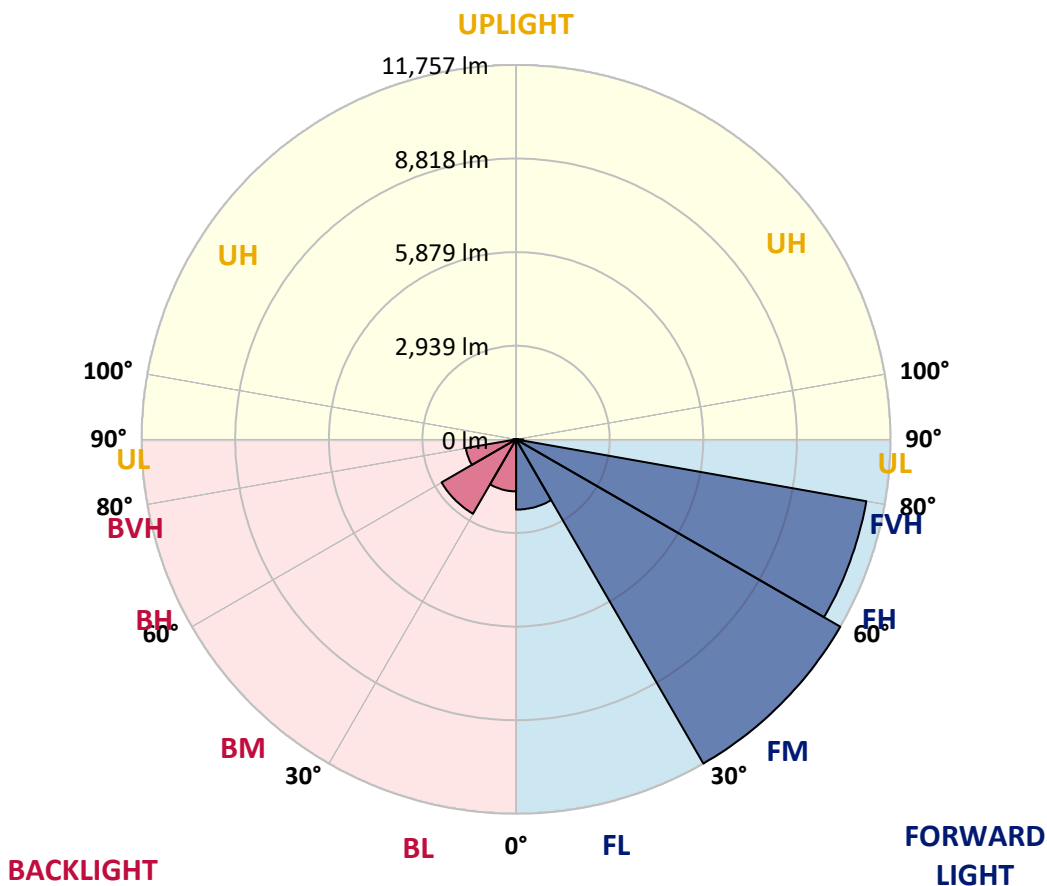
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.9	7.0			
FM (30°-60°)	11757.2	37.5			
FH (60°-80°)	11167.6	35.6			G4/12000
FVH (80°-90°)	222.3	0.7			G2/225
BL (0°-30°)	1633.5	5.2	B3/2500		
BM (30°-60°)	2699.2	8.6	B3/5000		
BH (60°-80°)	1603.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	97.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4
2.5°	4741.0	4714.5	4745.5	4760.9	4800.8	4858.3	4909.2	4911.5	4938.0	5002.2	5064.2
5°	4526.3	4513.1	4521.9	4568.4	4610.4	4683.5	4760.9	4767.6	4842.8	4969.0	5093.0
7.5°	4360.3	4342.6	4375.8	4435.6	4488.7	4570.6	4672.4	4681.3	4787.5	4977.9	5168.2
10°	4121.3	4108.0	4170.0	4249.7	4364.8	4499.8	4634.8	4645.9	4785.3	5035.4	5301.0
12.5°	4017.3	4017.3	4043.8	4119.1	4245.2	4424.5	4628.1	4645.9	4820.7	5123.9	5471.4
15°	4178.8	4189.9	4167.8	4163.3	4214.2	4384.7	4637.0	4663.6	4887.1	5214.7	5639.7
17.5°	4504.2	4515.3	4457.7	4367.0	4316.1	4422.3	4670.2	4699.0	4957.9	5314.3	5821.2
20°	4960.2	4973.4	4847.3	4707.8	4533.0	4530.8	4734.4	4760.9	5048.7	5422.7	6013.7
22.5°	5493.6	5502.4	5343.1	5121.7	4853.9	4732.2	4845.1	4871.6	5166.0	5573.3	6221.8
25°	6111.1	6137.7	5945.1	5624.2	5261.2	5008.8	5028.8	5059.8	5376.3	5774.7	6467.5
27.5°	6770.7	6803.9	6582.5	6228.4	5728.2	5314.3	5265.6	5292.2	5599.8	5898.6	6598.0
30°	7445.8	7470.1	7248.8	6843.7	6230.6	5659.6	5464.8	5480.3	5697.2	5958.4	6730.8
32.5°	8196.1	8176.2	7963.7	7496.7	6810.5	6073.5	5650.7	5646.3	5805.7	6077.9	6921.2
35°	8899.9	8928.7	8703.0	8187.2	7448.0	6584.8	5929.6	5911.9	6035.8	6272.7	7189.0
37.5°	9752.1	9743.2	9473.2	8915.4	8087.6	7073.9	6321.4	6290.4	6334.7	6575.9	7563.1
40°	10360.8	10422.7	10247.9	9727.7	8835.8	7676.0	6779.5	6710.9	6722.0	6950.0	8063.3
42.5°	10858.8	10916.3	10934.0	10602.0	9692.3	8419.6	7350.6	7282.0	7288.6	7611.8	8678.6
45°	11241.7	11319.1	11569.3	11471.9	10657.4	9278.4	8123.1	8052.2	8056.6	8415.2	9422.3
47.5°	11398.8	11482.9	11989.8	12222.2	11682.1	10305.4	9083.7	8979.6	8995.1	9391.3	10272.2
50°	11347.9	11460.8	12146.9	12799.9	12540.9	11350.1	10232.4	10159.3	10099.6	10675.1	11195.2
52.5°	10909.7	11033.6	12131.5	13167.3	13242.6	12337.3	11418.8	11376.7	11363.4	12038.5	12226.6
55°	9619.3	9827.3	11598.0	13264.7	13791.5	13266.9	12704.7	12633.9	12702.5	13499.3	13269.1
57.5°	8904.4	9059.3	10553.3	13156.2	14240.8	14152.3	13988.5	13995.1	14072.6	15086.3	14533.0
60°	8497.1	8678.6	9973.4	12859.7	14672.4	15228.0	15332.0	15332.0	15471.4	16797.2	15816.7
62.5°	7957.0	8140.8	9431.1	12288.6	15070.8	16494.0	17020.8	17014.1	17069.5	18632.1	17071.7
65°	6861.4	7031.9	8342.2	11387.8	15265.6	17888.4	18939.8	18919.8	18809.2	20265.6	17901.7
67.5°	4982.3	5143.9	6390.0	9674.6	14563.9	19012.8	20916.3	20925.2	20263.4	21294.8	17946.0
70°	3284.6	3395.3	4108.0	6283.7	11843.7	18528.1	21744.1	21770.7	20486.9	20652.9	15971.6
72.5°	2049.6	2127.0	2565.3	3747.2	6998.7	14665.8	19619.3	19692.3	18430.7	18149.6	13123.0
75°	1361.2	1414.3	1706.5	2184.6	3238.2	7937.1	14913.7	15148.3	14772.0	14227.5	9143.4
77.5°	818.9	863.2	1086.8	1387.8	1434.3	3100.9	8705.2	9311.6	9364.7	7428.1	3829.1
80°	374.1	425.0	599.8	792.4	763.6	1080.1	3069.9	3211.6	3789.3	2359.4	1208.5
82.5°	221.3	243.5	398.4	394.0	325.4	524.6	1104.5	1133.2	962.8	863.2	515.7
85°	88.5	104.0	168.2	148.3	119.5	170.4	416.1	436.0	418.3	376.3	190.3
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	37.6	39.8	57.5	104.0	57.5
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°	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4	5066.4
2.5°	5104.0	5090.7	5157.1	5208.0	5230.2	5252.3	5232.4	5225.8	5225.8	5181.5	5159.4
5°	5159.4	5166.0	5256.7	5298.8	5298.8	5281.1	5228.0	5190.3	5177.1	5119.5	5104.0
7.5°	5263.4	5292.2	5376.3	5374.1	5312.1	5214.7	5081.9	4980.1	4887.1	4847.3	4822.9
10°	5433.8	5471.4	5529.0	5436.0	5263.4	5006.6	4725.5	4504.2	4371.4	4265.2	4265.2
12.5°	5628.6	5664.0	5652.9	5438.2	5081.9	4601.6	4196.5	3942.0	3756.1	3658.7	3658.7
15°	5823.4	5852.1	5732.6	5336.4	4703.4	4063.7	3621.1	3315.6	3154.0	3063.3	3063.3
17.5°	6020.4	6018.1	5765.8	5101.8	4209.8	3468.3	3034.5	2797.7	2742.4	2726.9	2724.7
20°	6210.7	6159.8	5723.8	4710.0	3636.6	2868.5	2594.1	2609.6	2691.5	2726.9	2731.3
22.5°	6425.4	6299.2	5599.8	4209.8	2985.8	2452.4	2470.1	2598.5	2718.0	2771.1	2777.8
25°	6644.5	6418.8	5391.8	3623.3	2441.3	2299.7	2436.9	2580.8	2715.8	2784.4	2791.1
27.5°	6733.1	6418.8	5037.6	2943.8	2151.4	2235.5	2386.0	2525.4	2667.1	2746.8	2762.3
30°	6806.1	6363.4	4541.8	2330.7	2031.9	2173.5	2304.1	2432.5	2571.9	2669.3	2687.0
32.5°	6907.9	6314.7	3942.0	1958.8	1976.5	2113.8	2204.5	2313.0	2439.1	2503.3	2496.7
35°	7027.4	6239.5	3218.2	1781.8	1930.1	2062.9	2127.0	2191.2	2133.7	2131.5	2138.1
37.5°	7197.9	6173.1	2587.4	1702.1	1899.1	2027.4	2080.6	1943.3	1863.7	1830.5	1817.2
40°	7443.5	6146.5	2040.7	1655.6	1894.6	2025.2	1987.6	1775.1	1666.7	1551.6	1549.4
42.5°	7753.4	6126.6	1686.6	1633.5	1910.1	2076.1	1859.2	1664.5	1440.9	1390.0	1385.6
45°	8151.8	6095.6	1509.5	1629.0	1947.8	2116.0	1845.9	1511.7	1359.0	1336.9	1336.9
47.5°	8632.1	6046.9	1429.8	1629.0	1989.8	2098.3	1806.1	1478.5	1321.4	1345.7	1361.2
50°	9183.3	5984.9	1387.8	1624.6	2031.9	2098.3	1722.0	1471.9	1312.5	1438.7	1489.6
52.5°	9772.0	5914.1	1359.0	1606.9	2060.6	2100.5	1726.4	1494.0	1321.4	1460.8	1502.9
55°	10422.7	5903.0	1319.2	1569.3	2069.5	2042.9	1737.5	1542.7	1334.7	1323.6	1325.8
57.5°	11243.9	6035.8	1290.4	1513.9	2034.1	1925.6	1759.6	1578.1	1319.2	1321.4	1336.9
60°	12102.7	6286.0	1314.7	1460.8	1961.0	1815.0	1775.1	1560.4	1243.9	1208.5	1212.9
62.5°	12833.1	6476.3	1334.7	1436.5	1854.8	1717.6	1759.6	1520.6	1201.9	1193.0	1212.9
65°	13138.5	6319.2	1286.0	1385.6	1699.9	1598.0	1726.4	1469.7	1166.4	1133.2	1135.5
67.5°	12799.9	5582.1	1190.8	1272.7	1525.0	1445.3	1673.3	1403.3	1117.7	1077.9	1069.1
70°	10934.0	4101.4	1027.0	1093.4	1312.5	1266.0	1591.4	1317.0	1040.3	1011.5	991.6
72.5°	8811.4	2903.9	852.1	869.9	1029.2	1066.8	1449.8	1208.5	951.7	869.9	841.1
75°	6133.2	1823.8	710.5	692.8	743.7	814.5	1131.0	1002.7	821.2	734.8	708.3
77.5°	2638.3	936.3	555.6	546.7	495.8	564.4	867.6	836.7	688.4	588.8	573.3
80°	883.1	542.3	400.6	385.1	329.8	396.2	610.9	668.4	540.1	436.0	409.5
82.5°	442.7	314.3	254.5	230.2	221.3	250.1	360.8	416.1	374.1	301.0	254.5
85°	216.9	179.3	139.4	137.2	115.1	108.5	150.5	177.1	168.2	123.9	117.3
87.5°	79.7	70.8	44.3	35.4	22.1	15.5	8.9	8.9	6.6	6.6	6.6
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)