

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: P640809

Luminaire Tested: GWS-SA5E-750-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38427 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

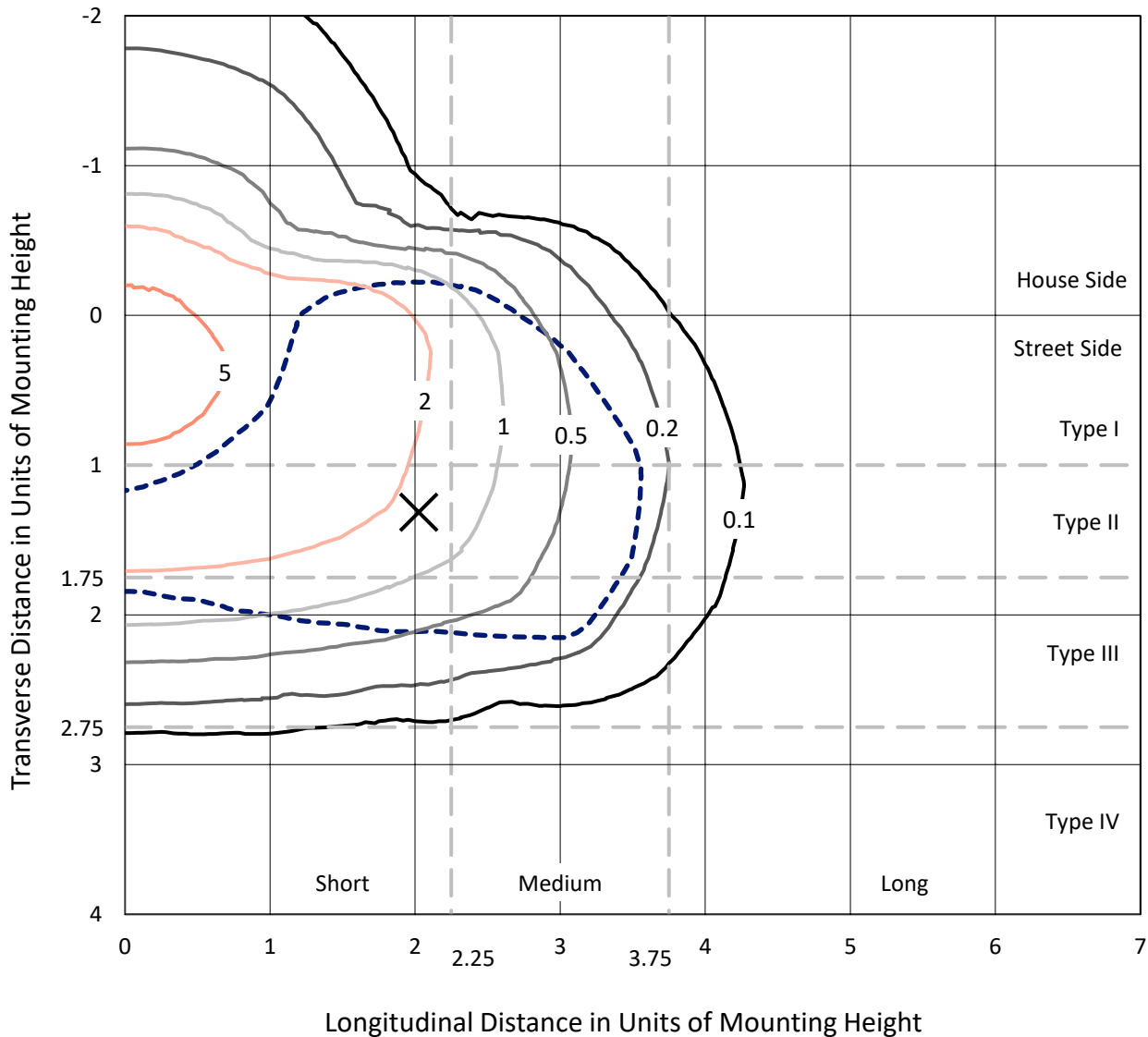
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

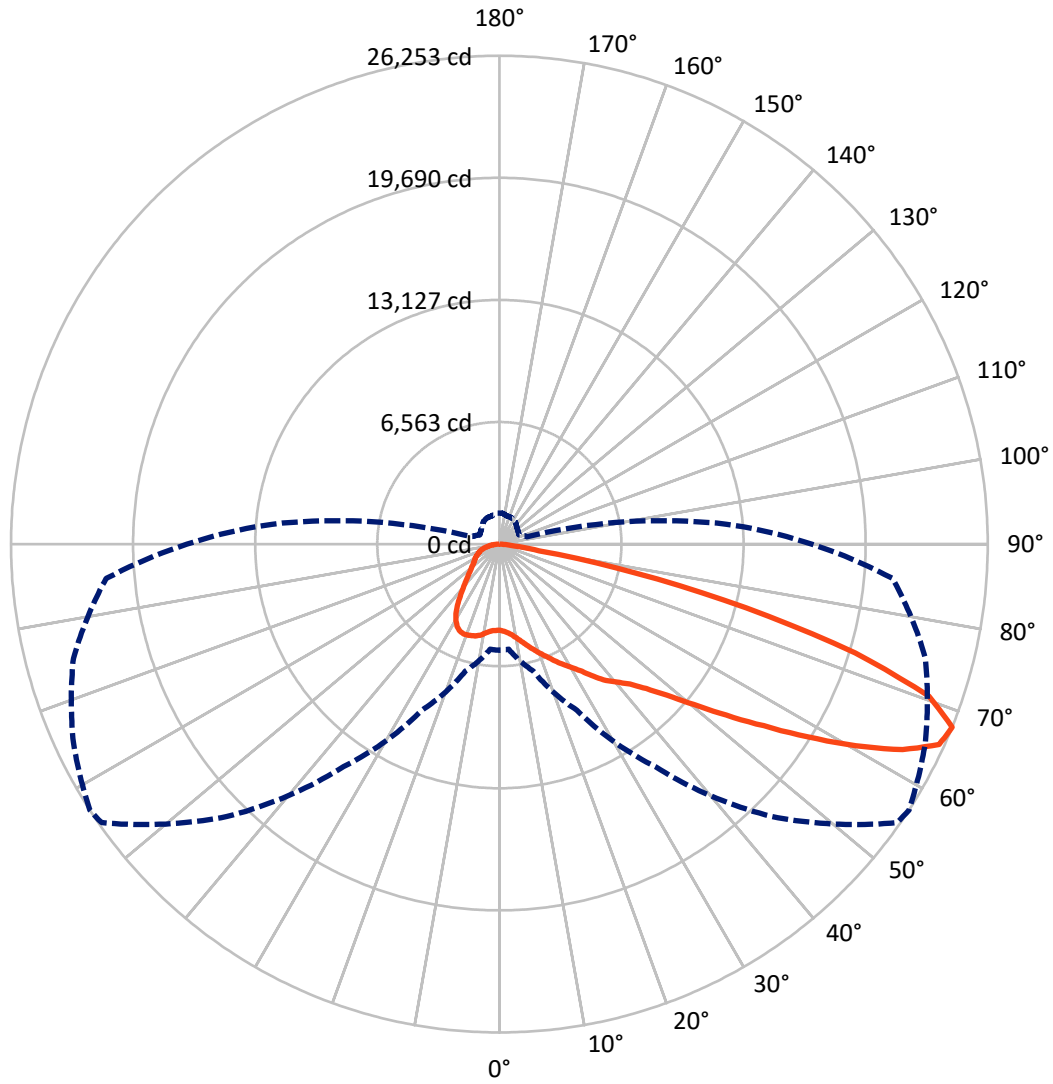
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8448.6	0.0	8448.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29978.4	0.0	29978.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	38427.0	0.0	38427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.2	1.2
10°-20°	1520.2	4.0
20°-30°	2710.3	7.1
30°-40°	3940.4	10.3
40°-50°	5703.2	14.8
50°-60°	8925.2	23.2
60°-70°	10411.9	27.1
70°-80°	4346.4	11.3
80°-90°	410.2	1.1
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°	38427.0	100.0
0°-180°	38427.0	100.0

Coefficient of Utilization



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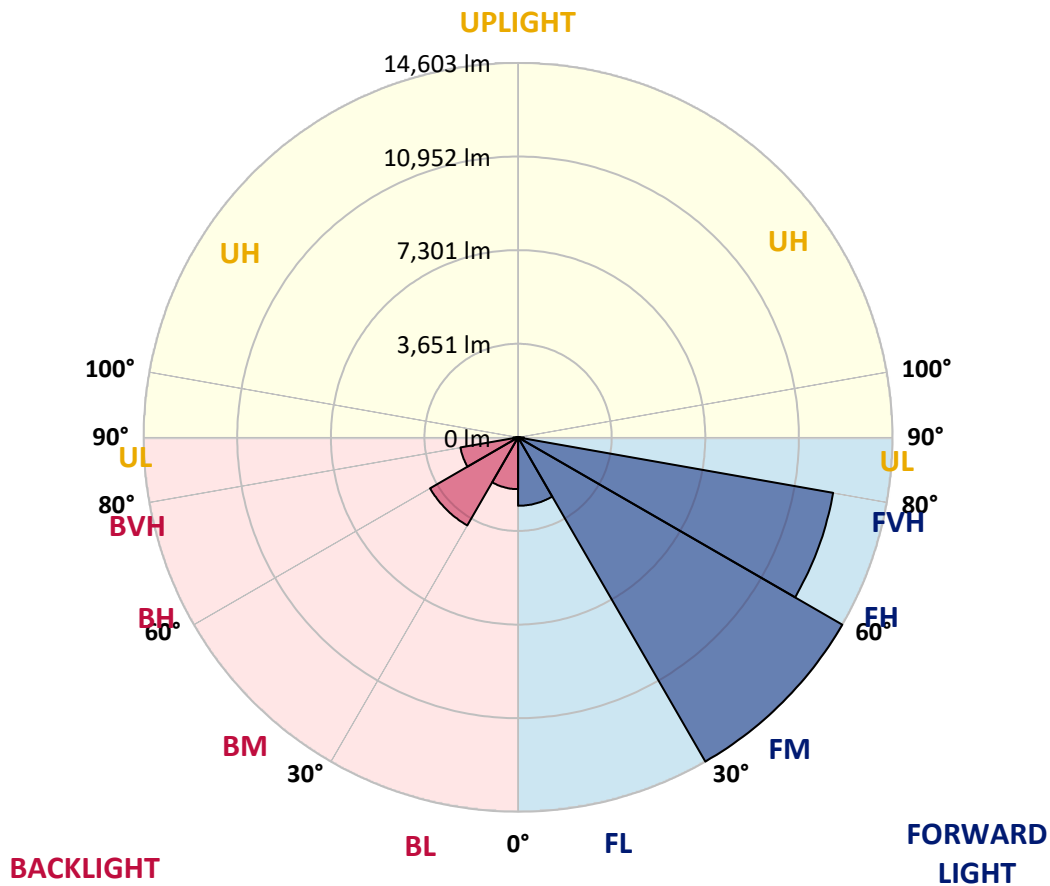
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2669.1	6.9			
FM (30°-60°)	14602.8	38.0			
FH (60°-80°)	12477.9	32.5			G5
FVH (80°-90°)	228.5	0.6			G3/500
BL (0°-30°)	2020.6	5.3	B3/2500		
BM (30°-60°)	3966.0	10.3	B3/5000		
BH (60°-80°)	2280.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	181.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2
2.5°	4696.3	4690.8	4688.0	4704.5	4699.0	4696.3	4696.3	4693.5	4688.0	4666.0	4635.7
5°	4825.6	4814.6	4803.6	4817.4	4806.4	4795.4	4792.6	4787.1	4767.8	4734.8	4688.0
7.5°	4960.5	4949.5	4952.3	4960.5	4952.3	4946.8	4938.5	4933.0	4902.7	4850.4	4787.1
10°	5150.5	5150.5	5156.0	5164.2	5167.0	5158.7	5142.2	5134.0	5098.2	5032.1	4944.0
12.5°	5425.7	5420.2	5420.2	5414.7	5423.0	5414.7	5398.2	5384.5	5340.4	5255.1	5128.4
15°	5789.1	5767.1	5747.8	5712.0	5701.0	5670.7	5676.3	5668.0	5626.7	5511.1	5351.4
17.5°	6177.3	6174.5	6144.2	6072.7	6001.1	5951.5	5962.5	5959.8	5937.8	5780.9	5577.2
20°	6518.6	6532.4	6504.8	6449.8	6353.4	6259.8	6254.3	6268.1	6240.6	6083.7	5800.1
22.5°	6901.2	6890.2	6862.7	6791.1	6719.6	6620.5	6587.4	6576.4	6565.4	6386.5	6028.6
25°	7264.6	7297.6	7261.9	7195.8	7085.7	6978.3	6950.8	6961.8	6931.5	6694.8	6273.6
27.5°	7724.3	7738.1	7716.1	7625.2	7531.6	7380.2	7327.9	7327.9	7316.9	6983.8	6466.3
30°	8214.3	8252.9	8214.3	8140.0	8043.7	7826.2	7713.3	7702.3	7669.3	7281.1	6692.0
32.5°	8707.1	8734.6	8707.1	8635.5	8525.4	8335.4	8173.0	8148.3	8104.2	7606.0	6923.3
35°	9144.8	9169.5	9164.0	9180.6	9089.7	8850.2	8751.1	8740.1	8624.5	8029.9	7237.1
37.5°	9623.8	9654.0	9612.7	9645.8	9610.0	9384.3	9354.0	9298.9	9133.8	8429.0	7567.4
40°	10168.8	10196.3	10130.3	10144.0	10102.7	9976.1	9822.0	9747.6	9502.6	8861.2	8087.7
42.5°	10752.4	10815.7	10846.0	10821.2	10724.9	10653.3	10383.5	10289.9	10086.2	9640.3	8943.8
45°	11597.5	11691.1	11735.1	11671.8	11630.5	11528.7	11198.3	11085.5	10978.1	10738.6	10138.5
47.5°	12508.7	12594.0	12734.4	12761.9	12795.0	12717.9	12252.7	12142.6	12161.8	12134.3	11608.5
50°	13235.4	13307.0	13623.6	13962.1	14242.9	14265.0	13670.4	13552.0	13656.6	13744.7	13378.6
52.5°	13763.9	13827.3	14245.7	14944.9	15580.8	16051.5	15410.1	15275.2	15360.6	15558.8	15390.8
55°	14193.4	14281.5	14719.2	15792.8	17078.3	17821.6	17411.4	17240.7	17204.9	17449.9	17546.3
57.5°	14419.1	14446.6	15060.5	16456.2	18176.7	19558.6	19737.5	19544.8	19203.5	19338.3	19839.4
60°	13904.3	13951.1	14790.7	16626.8	19043.8	21281.8	22179.2	22019.6	21292.8	21367.2	21920.5
62.5°	12481.1	12547.2	13557.5	15814.8	19115.4	22432.5	24433.8	24331.9	23357.4	22955.5	23120.7
65°	10011.9	10033.9	11080.0	13805.2	17692.2	22575.6	26005.6	25980.8	24799.9	23858.4	23151.0
67.5°	5709.3	5670.7	7069.2	9846.7	14600.8	20714.7	26107.5	26253.4	25267.9	23709.8	21224.0
70°	2474.8	2480.3	3124.4	4858.7	9450.3	16742.5	24249.3	24499.8	23913.5	21235.0	16885.6
72.5°	1145.2	1161.7	1439.7	2103.1	4035.6	10386.3	19773.3	19999.0	19495.3	16995.7	12285.7
75°	809.3	823.1	960.7	1205.7	1855.4	4046.6	13227.2	13700.6	13945.6	12712.4	8096.0
77.5°	613.9	633.1	702.0	836.8	1145.2	1434.2	6328.7	7457.3	8883.3	7908.8	4170.5
80°	390.9	390.9	465.2	558.8	699.2	746.0	1827.9	2166.4	4346.7	3259.3	1637.9
82.5°	264.3	272.5	316.6	355.1	401.9	423.9	784.5	836.8	1255.3	1109.4	674.4
85°	140.4	145.9	165.2	162.4	192.7	167.9	330.3	327.6	459.7	503.8	256.0
87.5°	0.0	0.0	2.8	2.8	5.5	8.3	35.8	38.5	96.3	154.2	85.3
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°	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2	4630.2
2.5°	4652.2	4619.2	4635.7	4630.2	4646.7	4646.7	4616.4	4608.2	4610.9	4577.9	4566.9
5°	4693.5	4655.0	4663.2	4652.2	4668.7	4682.5	4668.7	4668.7	4685.2	4660.5	4646.7
7.5°	4787.1	4743.1	4743.1	4729.3	4748.6	4759.6	4748.6	4765.1	4795.4	4770.6	4756.8
10°	4935.8	4883.4	4886.2	4869.7	4877.9	4872.4	4828.4	4814.6	4822.9	4800.9	4789.9
12.5°	5128.4	5056.9	5056.9	5023.8	5004.6	4946.8	4855.9	4822.9	4828.4	4809.1	4800.9
15°	5312.9	5246.8	5233.1	5167.0	5078.9	4971.5	4889.0	4866.9	4872.4	4853.2	4839.4
17.5°	5530.4	5445.0	5395.5	5274.3	5111.9	5001.8	4919.2	4866.9	4822.9	4778.8	4767.8
20°	5731.3	5623.9	5533.1	5345.9	5147.7	4996.3	4842.2	4712.8	4605.4	4547.6	4533.8
22.5°	5937.8	5800.1	5640.5	5395.5	5145.0	4897.2	4613.7	4418.2	4258.6	4173.2	4189.7
25°	6133.2	5959.8	5742.3	5442.3	5056.9	4677.0	4291.6	3999.8	3818.1	3752.1	3732.8
27.5°	6295.6	6080.9	5835.9	5420.2	4875.2	4360.4	3851.2	3526.3	3350.1	3275.8	3256.5
30°	6477.3	6235.1	5970.8	5318.4	4588.9	3917.2	3352.9	3088.6	2962.0	2890.4	2893.2
32.5°	6686.5	6433.3	6160.7	5122.9	4222.8	3438.2	2942.7	2761.0	2659.2	2587.6	2576.6
35°	6967.3	6716.8	6287.4	4828.4	3757.6	2997.8	2661.9	2513.3	2386.7	2293.1	2273.8
37.5°	7314.2	7143.5	6301.1	4434.7	3259.3	2695.0	2461.0	2301.3	2147.2	2023.3	2009.5
40°	7908.8	7713.3	6188.3	3942.0	2835.4	2499.5	2293.1	2108.6	1929.7	1792.1	1772.8
42.5°	8756.6	8354.7	5946.0	3385.9	2516.0	2345.4	2133.4	1899.4	1717.7	1621.4	1607.6
45°	9835.7	9070.4	5582.7	2862.9	2279.3	2194.0	1965.5	1720.5	1624.1	1555.3	1541.6
47.5°	11157.1	9904.5	5164.2	2455.5	2094.9	2056.3	1794.8	1659.9	1574.6	1516.8	1503.0
50°	12737.2	10967.1	4820.1	2136.2	1929.7	1896.7	1739.8	1624.1	1555.3	1508.5	1497.5
52.5°	14540.2	12148.1	4652.2	1907.7	1786.6	1753.5	1720.5	1615.9	1558.1	1522.3	1508.5
55°	16412.1	13392.3	4495.3	1731.5	1665.4	1684.7	1723.2	1643.4	1599.4	1552.6	1538.8
57.5°	18220.7	14559.5	4109.9	1593.9	1577.3	1651.7	1737.0	1670.9	1618.6	1571.8	1555.3
60°	19467.7	15198.2	3457.5	1483.8	1511.3	1610.4	1701.2	1629.7	1563.6	1544.3	1536.1
62.5°	19803.6	15121.1	2684.0	1370.9	1431.5	1519.5	1607.6	1560.8	1492.0	1522.3	1525.0
65°	19019.0	14295.2	2015.0	1260.8	1326.8	1401.2	1511.3	1492.0	1467.2	1549.8	1552.6
67.5°	16797.5	12266.4	1536.1	1164.4	1219.5	1310.3	1481.0	1560.8	1566.3	1670.9	1659.9
70°	12709.6	9164.0	1203.0	1073.6	1136.9	1310.3	1577.3	1613.1	1547.1	1643.4	1621.4
72.5°	8786.9	6047.9	1024.0	993.8	1035.0	1249.8	1574.6	1574.6	1503.0	1503.0	1461.7
75°	5458.8	3556.6	891.9	891.9	891.9	1092.9	1530.6	1450.7	1324.1	1266.3	1233.2
77.5°	2695.0	1728.8	748.8	776.3	746.0	913.9	1249.8	1186.5	1109.4	1048.8	1026.8
80°	1150.7	864.4	605.6	635.9	600.1	688.2	991.0	977.2	902.9	823.1	798.3
82.5°	528.5	446.0	484.5	498.3	437.7	517.5	724.0	724.0	682.7	572.6	531.3
85°	225.7	236.7	335.8	335.8	275.3	291.8	388.1	368.9	330.3	269.8	247.8
87.5°	77.1	115.6	170.7	148.7	57.8	24.8	13.8	5.5	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)