

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: P638884

Luminaire Tested: GWS-SA4F-760-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638884
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-SA4F-760-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34350.6 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

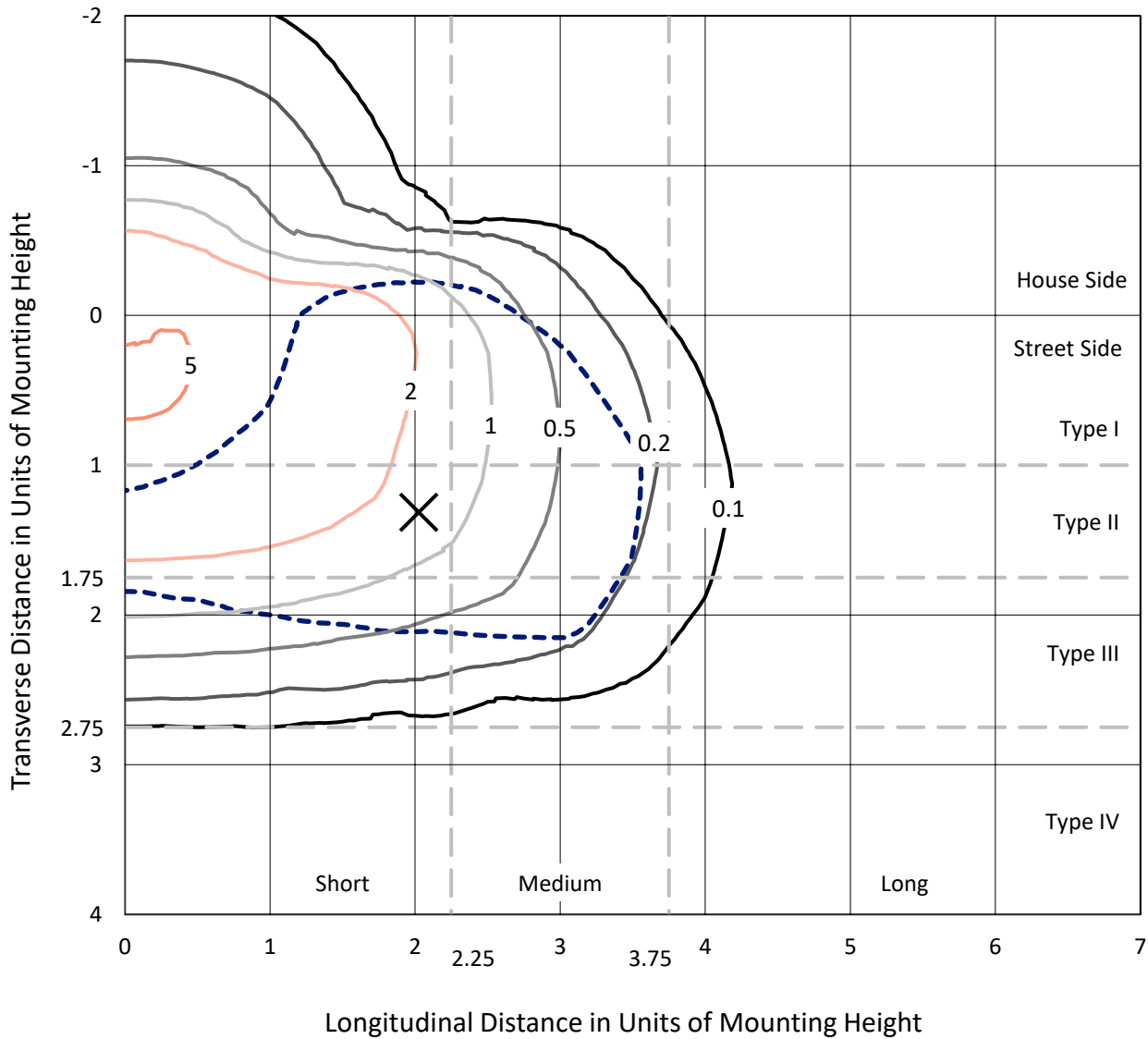
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

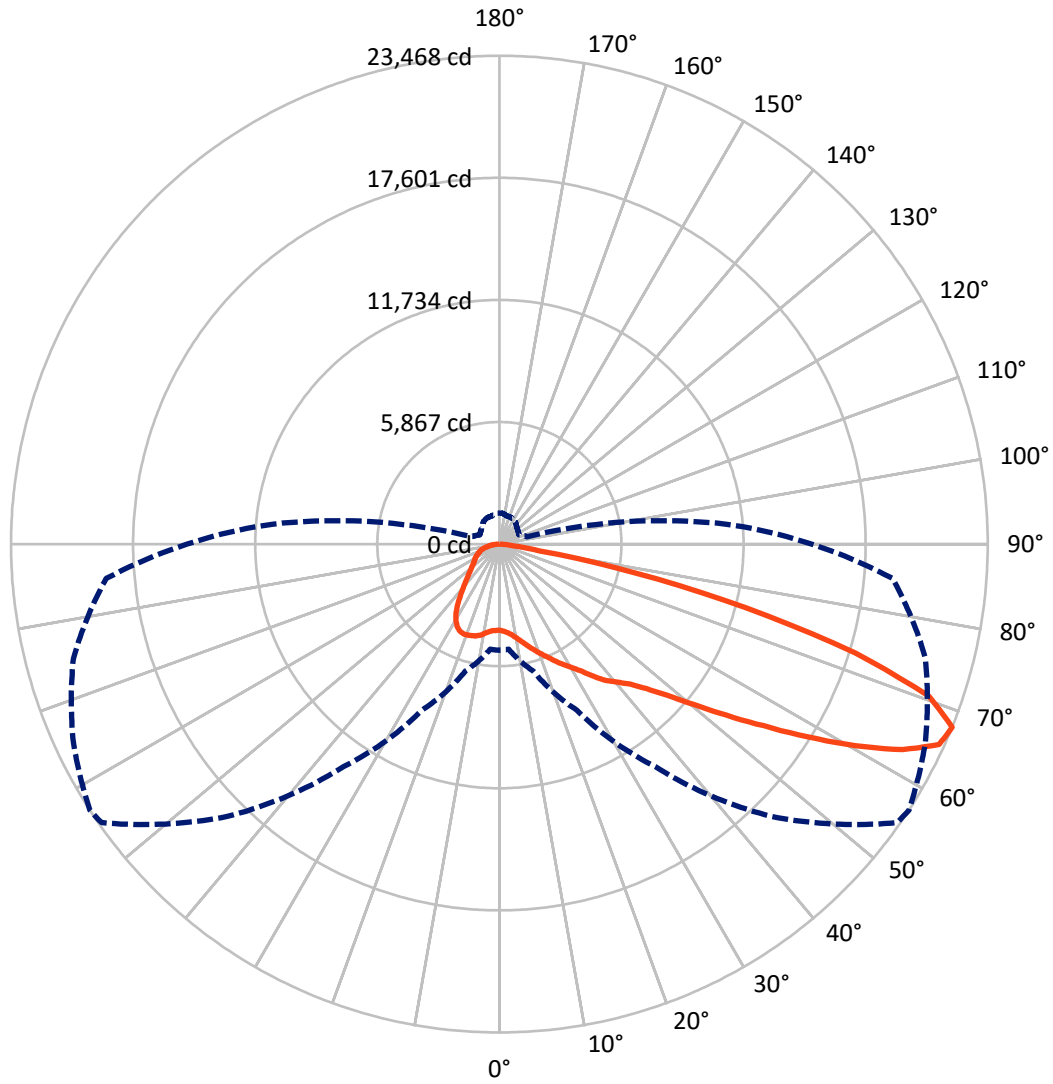
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	7552.4	0.0	7552.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	26798.2	0.0	26798.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	34350.6	0.0	34350.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.5	1.2
10°-20°	1359.0	4.0
20°-30°	2422.8	7.1
30°-40°	3522.4	10.3
40°-50°	5098.2	14.8
50°-60°	7978.4	23.2
60°-70°	9307.4	27.1
70°-80°	3885.3	11.3
80°-90°	366.7	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°	34350.6	100.0
0°-180°	34350.6	100.0

Coefficient of Utilization



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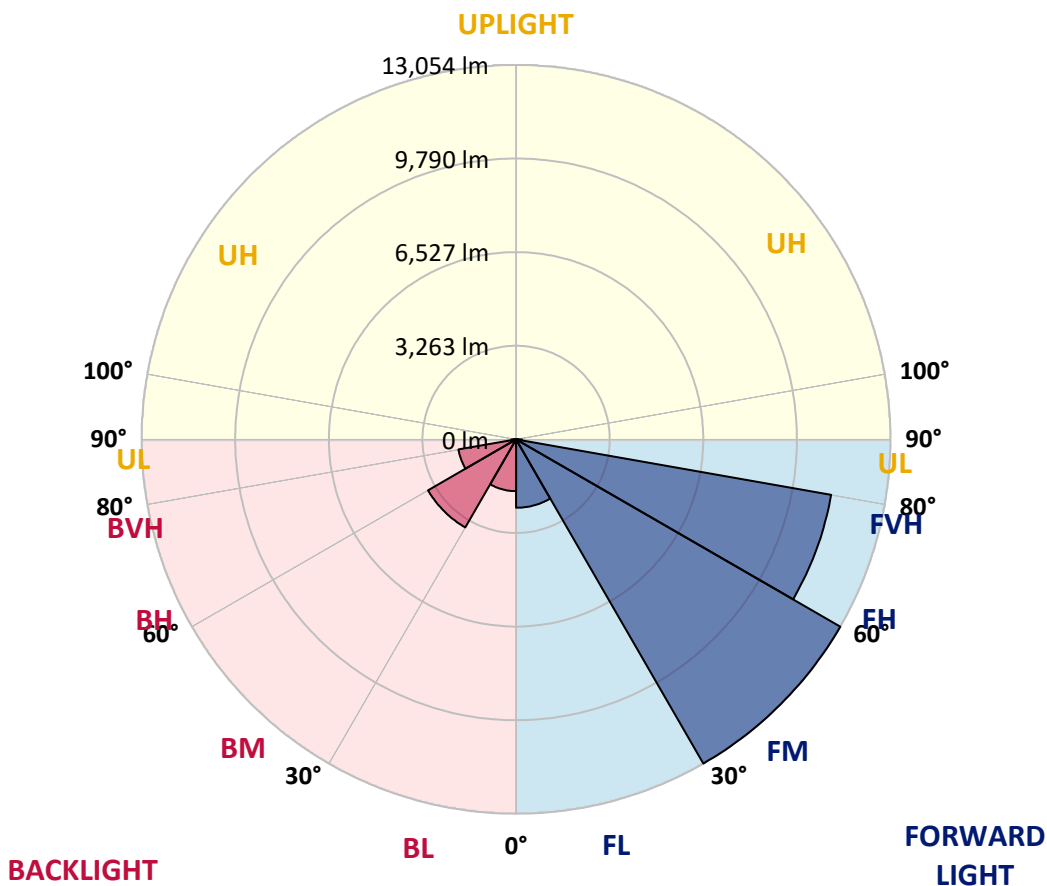
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.0	6.9			
FM (30°-60°)	13053.7	38.0			
FH (60°-80°)	11154.2	32.5			G4/12000
FVH (80°-90°)	204.3	0.6			G2/225
BL (0°-30°)	1806.3	5.3	B3/2500		
BM (30°-60°)	3545.3	10.3	B3/5000		
BH (60°-80°)	2038.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	162.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0
2.5°	4198.1	4193.2	4190.7	4205.5	4200.5	4198.1	4198.1	4195.6	4190.7	4171.0	4143.9
5°	4313.7	4303.9	4294.0	4306.3	4296.5	4286.7	4284.2	4279.3	4262.1	4232.5	4190.7
7.5°	4434.3	4424.5	4426.9	4434.3	4426.9	4422.0	4414.6	4409.7	4382.6	4335.9	4279.3
10°	4604.1	4604.1	4609.0	4616.4	4618.9	4611.5	4596.7	4589.3	4557.3	4498.3	4419.5
12.5°	4850.2	4845.3	4845.3	4840.3	4847.7	4840.3	4825.6	4813.3	4773.9	4697.6	4584.4
15°	5175.0	5155.3	5138.1	5106.1	5096.3	5069.2	5074.1	5066.7	5029.8	4926.5	4783.7
17.5°	5522.0	5519.5	5492.4	5428.5	5364.5	5320.2	5330.0	5327.6	5307.9	5167.6	4985.5
20°	5827.1	5839.4	5814.8	5765.6	5679.5	5595.8	5590.9	5603.2	5578.6	5438.3	5184.8
22.5°	6169.1	6159.3	6134.7	6070.7	6006.7	5918.1	5888.6	5878.8	5868.9	5709.0	5389.1
25°	6494.0	6523.5	6491.5	6432.5	6334.0	6238.0	6213.4	6223.3	6196.2	5984.6	5608.1
27.5°	6904.9	6917.2	6897.5	6816.3	6732.7	6597.3	6550.6	6550.6	6540.7	6243.0	5780.3
30°	7342.9	7377.4	7342.9	7276.5	7190.4	6996.0	6895.1	6885.2	6855.7	6508.7	5982.1
32.5°	7783.4	7808.0	7783.4	7719.4	7621.0	7451.2	7306.0	7283.9	7244.5	6799.1	6188.8
35°	8174.7	8196.8	8191.9	8206.7	8125.5	7911.4	7822.8	7812.9	7709.6	7178.1	6469.4
37.5°	8602.8	8629.9	8593.0	8622.5	8590.5	8388.8	8361.7	8312.5	8164.8	7534.9	6764.7
40°	9090.1	9114.7	9055.6	9067.9	9031.0	8917.8	8780.0	8713.6	8494.6	7921.2	7229.7
42.5°	9611.8	9668.4	9695.4	9673.3	9587.2	9523.2	9282.0	9198.4	9016.3	8617.6	7995.0
45°	10367.2	10450.9	10490.3	10433.7	10396.7	10305.7	10010.4	9909.5	9813.5	9599.5	9063.0
47.5°	11181.7	11258.0	11383.5	11408.1	11437.7	11368.8	10952.9	10854.5	10871.7	10847.1	10377.1
50°	11831.4	11895.4	12178.3	12481.0	12732.0	12751.7	12220.2	12114.4	12207.9	12286.6	11959.3
52.5°	12303.8	12360.4	12734.5	13359.5	13928.0	14348.7	13775.4	13654.8	13731.1	13908.3	13758.2
55°	12687.7	12766.5	13157.7	14117.4	15266.6	15931.0	15564.4	15411.8	15379.8	15598.8	15684.9
57.5°	12889.5	12914.1	13462.9	14710.5	16248.5	17483.8	17643.7	17471.5	17166.3	17286.9	17734.8
60°	12429.3	12471.2	13221.7	14863.0	17023.6	19024.2	19826.4	19683.7	19034.0	19100.5	19595.1
62.5°	11157.1	11216.2	12119.3	14137.1	17087.6	20052.8	21841.8	21750.7	20879.6	20520.4	20668.0
65°	8949.8	8969.5	9904.6	12340.8	15815.4	20180.8	23246.9	23224.7	22169.1	21327.5	20695.1
67.5°	5103.6	5069.2	6319.3	8802.2	13051.9	18517.3	23337.9	23468.4	22587.4	21194.6	18972.5
70°	2212.2	2217.2	2793.0	4343.3	8447.8	14966.4	21676.9	21900.8	21376.7	18982.4	15094.4
72.5°	1023.7	1038.4	1287.0	1880.0	3607.5	9284.5	17675.7	17877.5	17427.2	15192.8	10982.4
75°	723.5	735.8	858.8	1077.8	1658.6	3617.3	11824.0	12247.2	12466.3	11363.8	7237.1
77.5°	548.8	566.0	627.5	748.1	1023.7	1282.1	5657.3	6666.2	7940.9	7069.8	3728.1
80°	349.4	349.4	415.9	499.5	625.0	666.9	1634.0	1936.6	3885.6	2913.6	1464.2
82.5°	236.2	243.6	283.0	317.4	359.3	379.0	701.3	748.1	1122.1	991.7	602.9
85°	125.5	130.4	147.6	145.2	172.3	150.1	295.3	292.8	410.9	450.3	228.9
87.5°	0.0	0.0	2.5	2.5	4.9	7.4	32.0	34.5	86.1	137.8	76.3
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°	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0
2.5°	4158.7	4129.2	4143.9	4139.0	4153.8	4153.8	4126.7	4119.3	4121.8	4092.3	4082.4
5°	4195.6	4161.2	4168.5	4158.7	4173.5	4185.8	4173.5	4173.5	4188.2	4166.1	4153.8
7.5°	4279.3	4239.9	4239.9	4227.6	4244.8	4254.7	4244.8	4259.6	4286.7	4264.5	4252.2
10°	4412.2	4365.4	4367.9	4353.1	4360.5	4355.6	4316.2	4303.9	4311.3	4291.6	4281.7
12.5°	4584.4	4520.4	4520.4	4490.9	4473.7	4422.0	4340.8	4311.3	4316.2	4299.0	4291.6
15°	4749.3	4690.2	4677.9	4618.9	4540.1	4444.1	4370.3	4350.6	4355.6	4338.3	4326.0
17.5°	4943.7	4867.4	4823.1	4714.8	4569.6	4471.2	4397.4	4350.6	4311.3	4271.9	4262.1
20°	5123.3	5027.4	4946.1	4778.8	4601.6	4466.3	4328.5	4212.8	4116.9	4065.2	4052.9
22.5°	5307.9	5184.8	5042.1	4823.1	4599.2	4377.7	4124.2	3949.5	3806.8	3730.5	3745.3
25°	5482.6	5327.6	5133.2	4864.9	4520.4	4180.8	3836.3	3575.5	3413.1	3354.0	3336.8
27.5°	5627.8	5435.8	5216.8	4845.3	4358.0	3897.9	3442.6	3152.2	2994.8	2928.3	2911.1
30°	5790.2	5573.6	5337.4	4754.2	4102.1	3501.7	2997.2	2761.0	2647.8	2583.8	2586.3
32.5°	5977.2	5750.8	5507.2	4579.5	3774.8	3073.5	2630.6	2468.2	2377.1	2313.1	2303.3
35°	6228.2	6004.3	5620.4	4316.2	3358.9	2679.8	2379.6	2246.7	2133.5	2049.8	2032.6
37.5°	6538.3	6385.7	5632.7	3964.3	2913.6	2409.1	2199.9	2057.2	1919.4	1808.7	1796.4
40°	7069.8	6895.1	5531.8	3523.8	2534.6	2234.4	2049.8	1884.9	1725.0	1602.0	1584.7
42.5°	7827.7	7468.4	5315.3	3026.7	2249.1	2096.6	1907.1	1697.9	1535.5	1449.4	1437.1
45°	8792.3	8108.2	4990.4	2559.2	2037.5	1961.2	1757.0	1538.0	1451.9	1390.3	1378.0
47.5°	9973.5	8853.8	4616.4	2195.0	1872.6	1838.2	1604.4	1483.8	1407.6	1355.9	1343.6
50°	11386.0	9803.7	4308.8	1909.6	1725.0	1695.5	1555.2	1451.9	1390.3	1348.5	1338.7
52.5°	12997.8	10859.4	4158.7	1705.3	1597.0	1567.5	1538.0	1444.5	1392.8	1360.8	1348.5
55°	14671.1	11971.6	4018.4	1547.8	1488.8	1506.0	1540.4	1469.1	1429.7	1387.9	1375.6
57.5°	16287.8	13015.0	3673.9	1424.8	1410.0	1476.5	1552.7	1493.7	1446.9	1405.1	1390.3
60°	17402.6	13585.9	3090.7	1326.4	1351.0	1439.5	1520.8	1456.8	1397.7	1380.5	1373.1
62.5°	17702.8	13517.0	2399.2	1225.5	1279.6	1358.3	1437.1	1395.3	1333.7	1360.8	1363.3
65°	17001.5	12778.8	1801.3	1127.0	1186.1	1252.5	1351.0	1333.7	1311.6	1385.4	1387.9
67.5°	15015.6	10965.2	1373.1	1040.9	1090.1	1171.3	1323.9	1395.3	1400.2	1493.7	1483.8
70°	11361.4	8191.9	1075.4	959.7	1016.3	1171.3	1410.0	1442.0	1383.0	1469.1	1449.4
72.5°	7854.8	5406.3	915.4	888.3	925.2	1117.2	1407.6	1407.6	1343.6	1343.6	1306.7
75°	4879.7	3179.3	797.3	797.3	797.3	976.9	1368.2	1296.8	1183.6	1132.0	1102.4
77.5°	2409.1	1545.4	669.3	693.9	666.9	817.0	1117.2	1060.6	991.7	937.6	917.9
80°	1028.6	772.7	541.4	568.4	536.4	615.2	885.9	873.6	807.1	735.8	713.6
82.5°	472.5	398.6	433.1	445.4	391.3	462.6	647.2	647.2	610.3	511.8	474.9
85°	201.8	211.6	300.2	300.2	246.1	260.8	347.0	329.7	295.3	241.2	221.5
87.5°	68.9	103.4	152.6	132.9	51.7	22.1	12.3	4.9	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)