

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: P638774

Luminaire Tested: GWS-SA4F-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638774
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-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34047.7 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

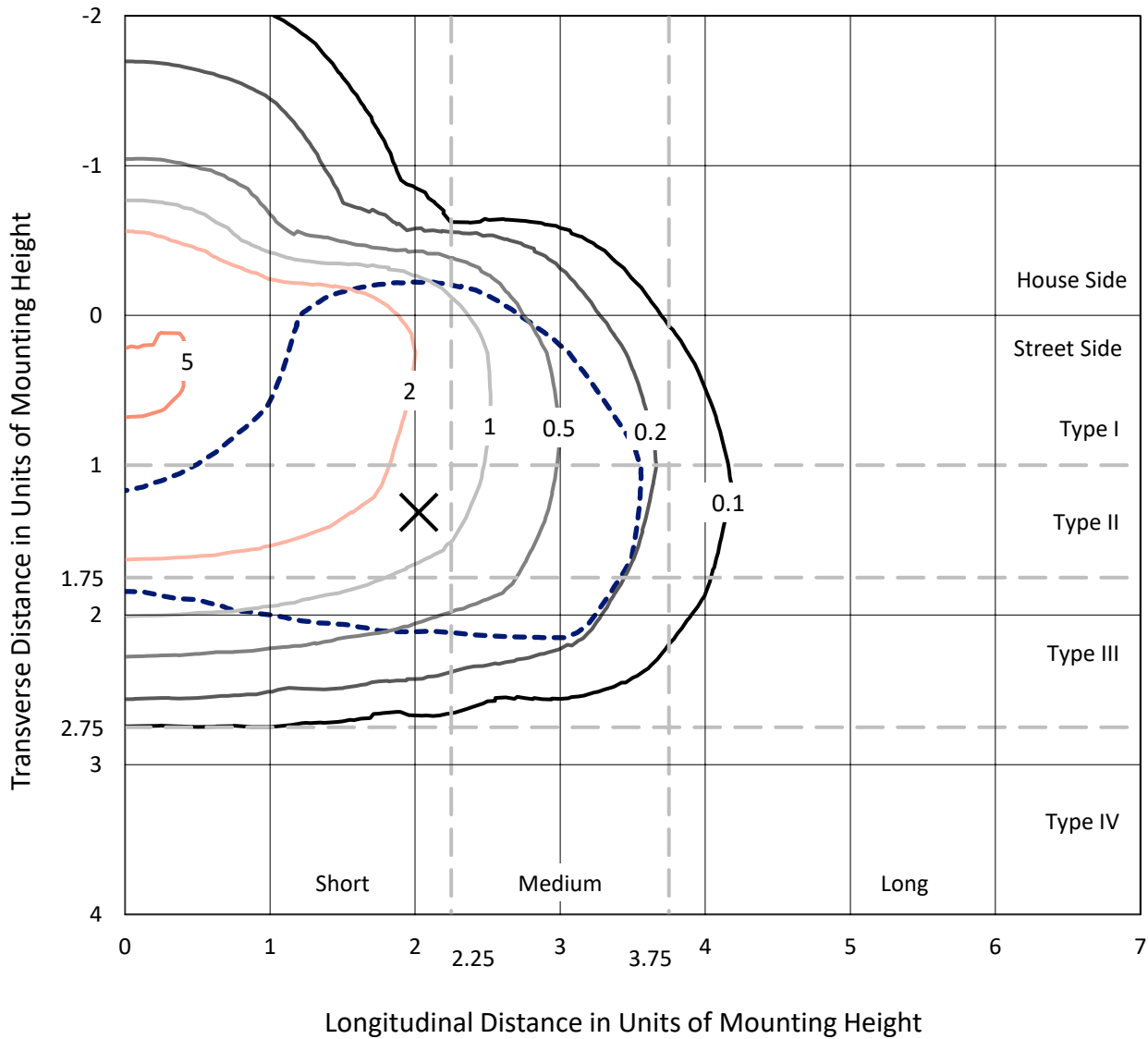
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

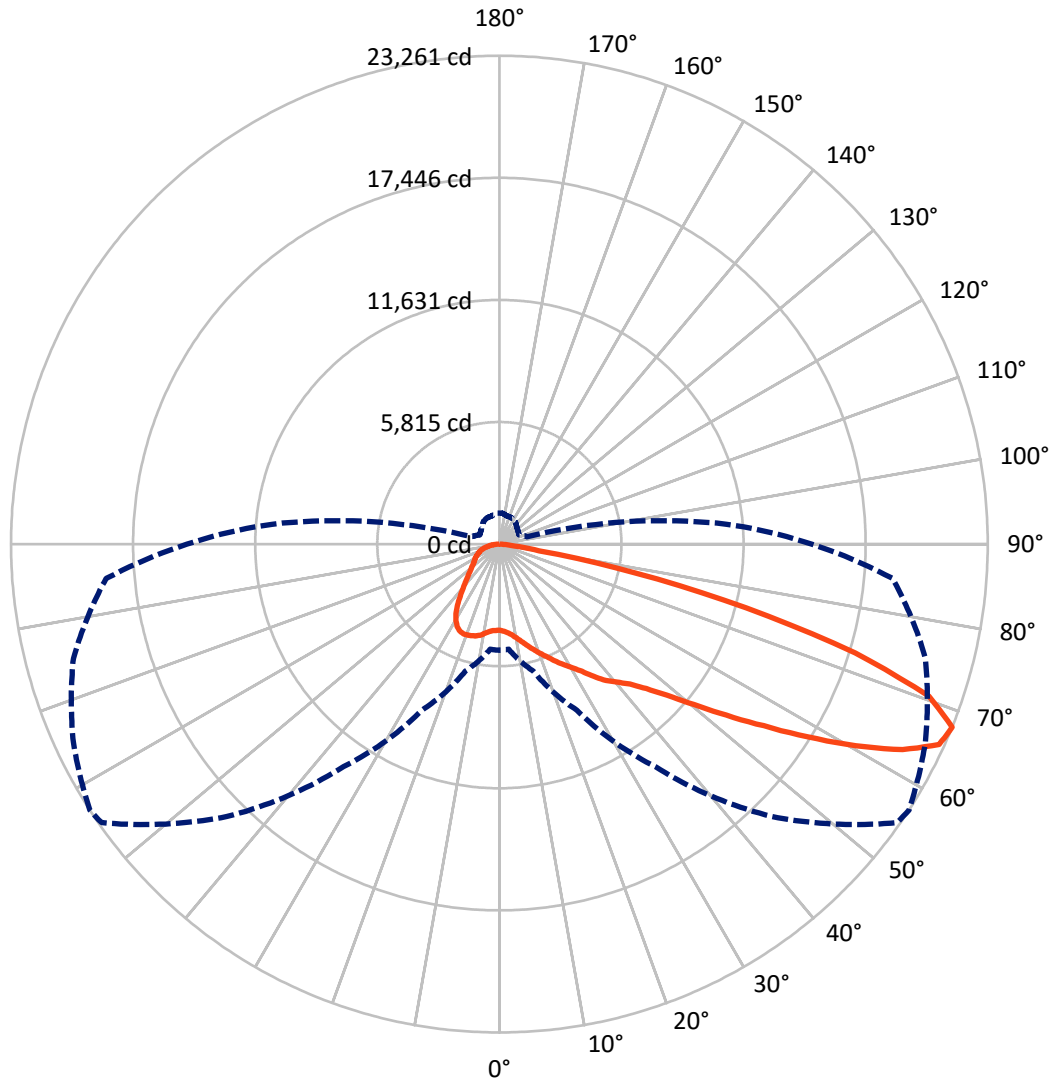
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	7485.8	0.0	7485.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	26561.9	0.0	26561.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	34047.7	0.0	34047.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.9	1.2
10°-20°	1347.0	4.0
20°-30°	2401.4	7.1
30°-40°	3491.4	10.3
40°-50°	5053.2	14.8
50°-60°	7908.1	23.2
60°-70°	9225.3	27.1
70°-80°	3851.0	11.3
80°-90°	363.4	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°	34047.7	100.0
0°-180°	34047.7	100.0

Coefficient of Utilization



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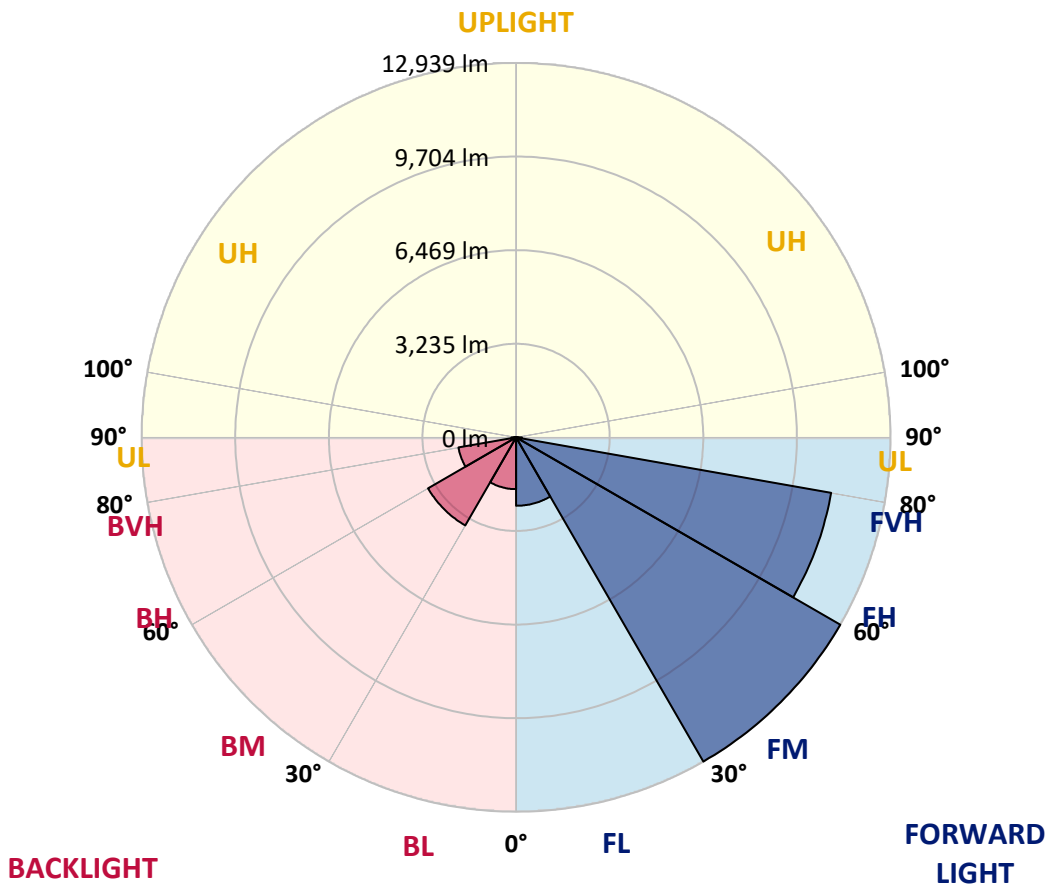
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.9	6.9			
FM (30°-60°)	12938.6	38.0			
FH (60°-80°)	11055.9	32.5			G4/12000
FVH (80°-90°)	202.5	0.6			G2/225
BL (0°-30°)	1790.4	5.3	B3/2500		
BM (30°-60°)	3514.0	10.3	B3/5000		
BH (60°-80°)	2020.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	160.9	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°	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5
2.5°	4161.1	4156.2	4153.7	4168.4	4163.5	4161.1	4161.1	4158.6	4153.7	4134.2	4107.4
5°	4275.7	4265.9	4256.2	4268.4	4258.6	4248.9	4246.4	4241.5	4224.5	4195.2	4153.7
7.5°	4395.2	4385.4	4387.9	4395.2	4387.9	4383.0	4375.7	4370.8	4344.0	4297.6	4241.5
10°	4563.5	4563.5	4568.4	4575.7	4578.1	4570.8	4556.2	4548.9	4517.2	4458.6	4380.6
12.5°	4807.4	4802.5	4802.5	4797.7	4805.0	4797.7	4783.0	4770.8	4731.8	4656.2	4544.0
15°	5129.4	5109.9	5092.8	5061.1	5051.3	5024.5	5029.4	5022.0	4985.5	4883.0	4741.6
17.5°	5473.3	5470.8	5444.0	5380.6	5317.2	5273.3	5283.0	5280.6	5261.1	5122.0	4941.6
20°	5775.7	5787.9	5763.5	5714.7	5629.4	5546.4	5541.6	5553.8	5529.4	5390.3	5139.1
22.5°	6114.7	6105.0	6080.6	6017.2	5953.8	5866.0	5836.7	5826.9	5817.2	5658.6	5341.6
25°	6436.7	6466.0	6434.3	6375.7	6278.2	6183.0	6158.7	6168.4	6141.6	5931.8	5558.6
27.5°	6844.0	6856.2	6836.7	6756.2	6673.3	6539.1	6492.8	6492.8	6483.0	6187.9	5729.4
30°	7278.2	7312.3	7278.2	7212.3	7127.0	6934.3	6834.3	6824.5	6795.2	6451.3	5929.4
32.5°	7714.8	7739.2	7714.8	7651.4	7553.8	7385.5	7241.6	7219.6	7180.6	6739.2	6134.3
35°	8102.6	8124.5	8119.7	8134.3	8053.8	7841.6	7753.8	7744.0	7641.6	7114.8	6412.3
37.5°	8527.0	8553.8	8517.2	8546.5	8514.8	8314.8	8288.0	8239.2	8092.8	7468.4	6705.0
40°	9009.9	9034.3	8975.8	8988.0	8951.4	8839.2	8702.6	8636.7	8419.7	7851.4	7166.0
42.5°	9527.0	9583.1	9609.9	9588.0	9502.6	9439.2	9200.2	9117.2	8936.8	8541.6	7924.5
45°	10275.8	10358.7	10397.8	10341.7	10305.1	10214.8	9922.1	9822.1	9727.0	9514.8	8983.1
47.5°	11083.1	11158.7	11283.1	11307.5	11336.8	11268.5	10856.3	10758.7	10775.8	10751.4	10285.6
50°	11727.0	11790.5	12071.0	12371.0	12619.7	12639.3	12112.4	12007.5	12100.2	12178.3	11853.9
52.5°	12195.4	12251.4	12622.2	13241.7	13805.1	14222.2	13653.9	13534.4	13610.0	13785.6	13636.8
55°	12575.8	12653.9	13041.7	13992.9	15132.0	15790.5	15427.1	15275.9	15244.2	15461.3	15546.6
57.5°	12775.8	12800.2	13344.2	14580.8	16105.2	17329.6	17488.1	17317.4	17015.0	17134.5	17578.4
60°	12319.7	12361.2	13105.1	14732.0	16873.5	18856.5	19651.6	19510.1	18866.2	18932.1	19422.3
62.5°	11058.7	11117.3	12012.4	14012.5	16936.9	19876.0	21649.2	21558.9	20695.5	20339.4	20485.8
65°	8870.9	8890.4	9817.3	12231.9	15675.9	20002.8	23041.9	23019.9	21973.6	21139.4	20512.6
67.5°	5058.6	5024.5	6263.5	8724.6	12936.8	18354.0	23132.1	23261.4	22388.2	21007.7	18805.2
70°	2192.7	2197.6	2768.3	4305.0	8373.3	14834.4	21485.8	21707.7	21188.2	18815.0	14961.3
72.5°	1014.7	1029.3	1275.6	1863.4	3575.7	9202.6	17519.8	17719.8	17273.5	15058.8	10885.6
75°	717.1	729.3	851.2	1068.3	1643.9	3585.4	11719.7	12139.3	12356.3	11263.6	7173.3
77.5°	543.9	561.0	622.0	741.5	1014.7	1270.8	5607.4	6607.4	7870.9	7007.4	3695.2
80°	346.3	346.3	412.2	495.1	619.5	661.0	1619.5	1919.5	3851.3	2887.9	1451.2
82.5°	234.2	241.5	280.5	314.6	356.1	375.6	695.1	741.5	1112.2	982.9	597.6
85°	124.4	129.3	146.3	143.9	170.7	148.8	292.7	290.2	407.3	446.3	226.8
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	31.7	34.1	85.4	136.6	75.6
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°	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5
2.5°	4122.0	4092.8	4107.4	4102.5	4117.2	4117.2	4090.3	4083.0	4085.4	4056.2	4046.4
5°	4158.6	4124.5	4131.8	4122.0	4136.7	4148.9	4136.7	4136.7	4151.3	4129.3	4117.2
7.5°	4241.5	4202.5	4202.5	4190.3	4207.4	4217.2	4207.4	4222.0	4248.9	4226.9	4214.7
10°	4373.3	4326.9	4329.3	4314.7	4322.0	4317.2	4278.1	4265.9	4273.3	4253.7	4244.0
12.5°	4544.0	4480.6	4480.6	4451.3	4434.2	4383.0	4302.5	4273.3	4278.1	4261.1	4253.7
15°	4707.4	4648.9	4636.7	4578.1	4500.1	4405.0	4331.8	4312.3	4317.2	4300.1	4287.9
17.5°	4900.1	4824.5	4780.6	4673.3	4529.4	4431.8	4358.6	4312.3	4273.3	4234.2	4224.5
20°	5078.1	4983.0	4902.5	4736.7	4561.1	4426.9	4290.3	4175.7	4080.6	4029.3	4017.1
22.5°	5261.1	5139.1	4997.7	4780.6	4558.6	4339.1	4087.9	3914.7	3773.2	3697.6	3712.3
25°	5434.2	5280.6	5087.9	4822.0	4480.6	4144.0	3802.5	3544.0	3383.0	3324.5	3307.4
27.5°	5578.2	5387.9	5170.8	4802.5	4319.6	3863.5	3412.3	3124.4	2968.3	2902.5	2885.4
30°	5739.1	5524.5	5290.3	4712.3	4065.9	3470.8	2970.8	2736.6	2624.4	2561.0	2563.5
32.5°	5924.5	5700.1	5458.6	4539.1	3741.5	3046.4	2607.4	2446.4	2356.1	2292.7	2283.0
35°	6173.3	5951.3	5570.8	4278.1	3329.3	2656.1	2358.6	2226.9	2114.7	2031.7	2014.7
37.5°	6480.6	6329.4	5583.0	3929.3	2887.9	2387.8	2180.5	2039.1	1902.5	1792.7	1780.5
40°	7007.4	6834.3	5483.0	3492.7	2512.2	2214.7	2031.7	1868.3	1709.8	1587.8	1570.8
42.5°	7758.7	7402.6	5268.4	3000.1	2229.3	2078.1	1890.3	1683.0	1522.0	1436.6	1424.4
45°	8714.8	8036.7	4946.4	2536.6	2019.6	1943.9	1741.5	1524.4	1439.1	1378.1	1365.9
47.5°	9885.6	8775.8	4575.7	2175.7	1856.1	1822.0	1590.3	1470.8	1395.1	1343.9	1331.7
50°	11285.6	9717.3	4270.8	1892.7	1709.8	1680.5	1541.5	1439.1	1378.1	1336.6	1326.9
52.5°	12883.2	10763.6	4122.0	1690.3	1583.0	1553.7	1524.4	1431.7	1380.5	1348.8	1336.6
55°	14541.7	11866.1	3983.0	1534.2	1475.6	1492.7	1526.9	1456.1	1417.1	1375.6	1363.4
57.5°	16144.2	12900.2	3641.5	1412.2	1397.6	1463.4	1539.1	1480.5	1434.2	1392.7	1378.1
60°	17249.1	13466.1	3063.5	1314.7	1339.0	1426.9	1507.3	1443.9	1385.4	1368.3	1361.0
62.5°	17546.7	13397.8	2378.1	1214.7	1268.3	1346.4	1424.4	1383.0	1322.0	1348.8	1351.2
65°	16851.5	12666.1	1785.4	1117.1	1175.6	1241.5	1339.0	1322.0	1300.0	1373.2	1375.6
67.5°	14883.2	10868.5	1361.0	1031.7	1080.5	1161.0	1312.2	1383.0	1387.8	1480.5	1470.8
70°	11261.2	8119.7	1065.9	951.2	1007.3	1161.0	1397.6	1429.3	1370.8	1456.1	1436.6
72.5°	7785.5	5358.6	907.3	880.5	917.1	1107.3	1395.1	1395.1	1331.7	1331.7	1295.1
75°	4836.7	3151.3	790.3	790.3	790.3	968.3	1356.1	1285.4	1173.2	1122.0	1092.7
77.5°	2387.8	1531.7	663.4	687.8	661.0	809.8	1107.3	1051.2	982.9	929.3	909.8
80°	1019.5	765.9	536.6	563.4	531.7	609.8	878.1	865.9	800.0	729.3	707.3
82.5°	468.3	395.1	429.3	441.5	387.8	458.5	641.5	641.5	604.9	507.3	470.7
85°	200.0	209.8	297.6	297.6	243.9	258.5	343.9	326.8	292.7	239.0	219.5
87.5°	68.3	102.4	151.2	131.7	51.2	22.0	12.2	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)