

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: P638719

Luminaire Tested: GWS-SA4F-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638719
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-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33581.1 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

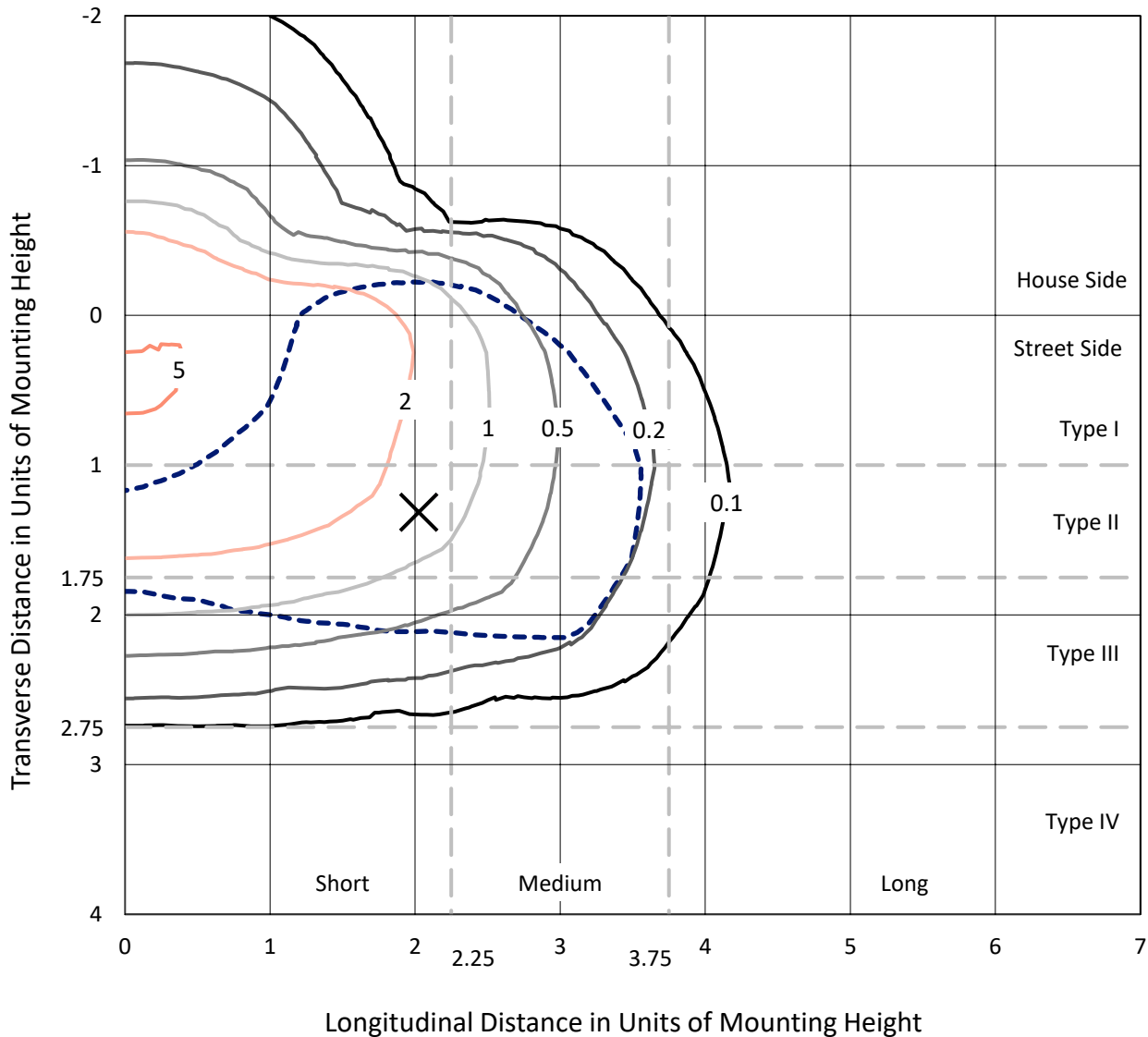
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

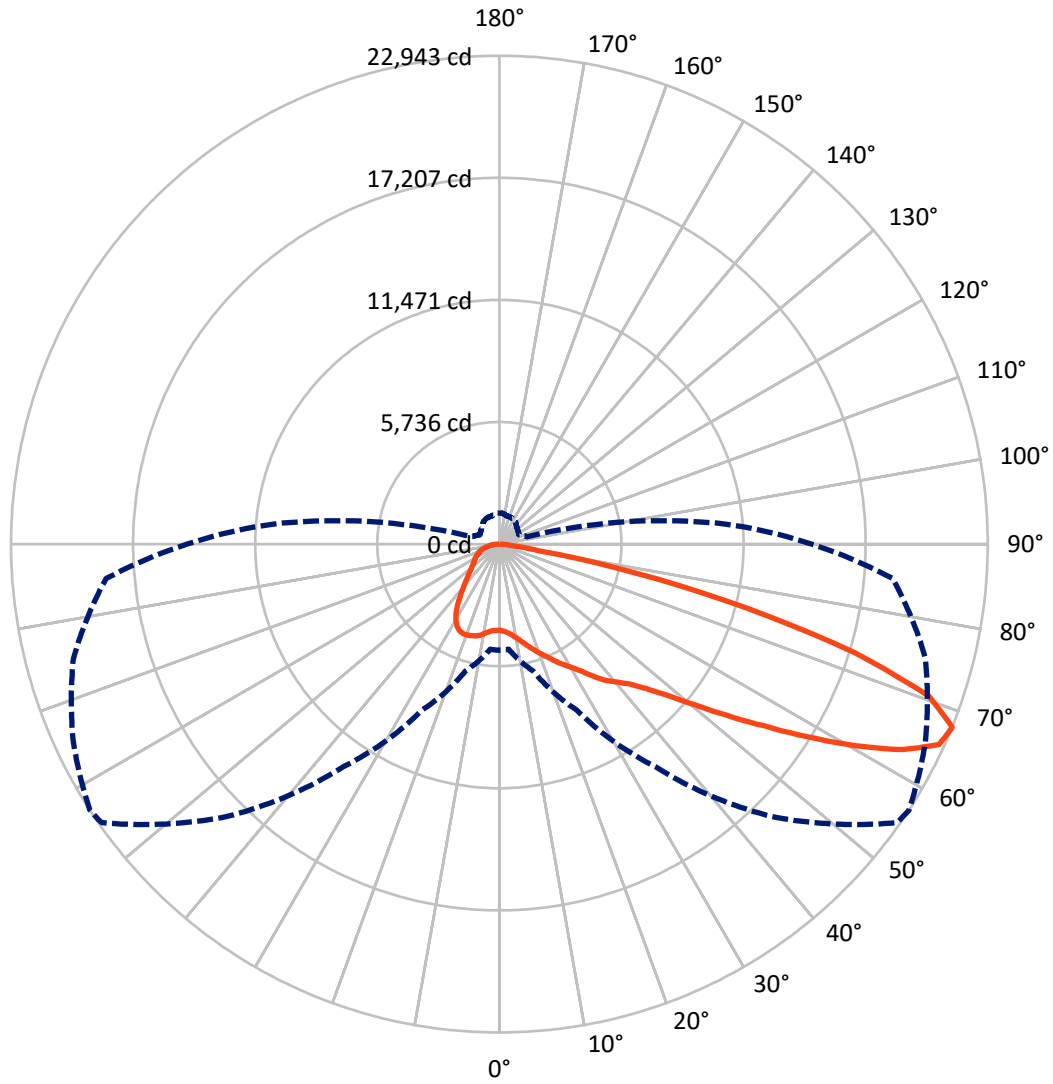
✕ Max cd
 - - - 1/2 Max cd



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	7383.2	0.0	7383.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	26197.9	0.0	26197.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	33581.1	0.0	33581.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	1.2
10°-20°	1328.5	4.0
20°-30°	2368.5	7.1
30°-40°	3443.5	10.3
40°-50°	4984.0	14.8
50°-60°	7799.7	23.2
60°-70°	9098.9	27.1
70°-80°	3798.2	11.3
80°-90°	358.4	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°	33581.1	100.0
0°-180°	33581.1	100.0

Coefficient of Utilization



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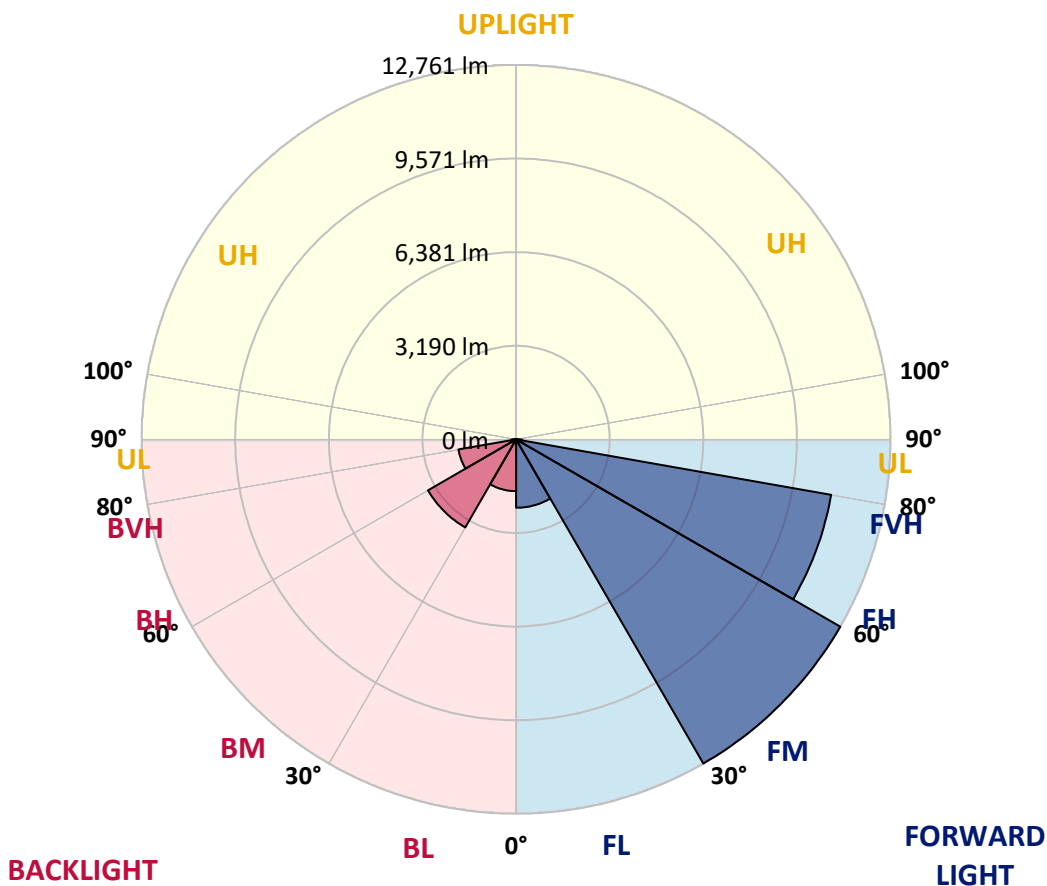
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2332.5	6.9			
FM (30°-60°)	12761.3	38.0			
FH (60°-80°)	10904.4	32.5			G4/12000
FVH (80°-90°)	199.7	0.6			G2/225
BL (0°-30°)	1765.8	5.3	B3/2500		
BM (30°-60°)	3465.9	10.3	B3/5000		
BH (60°-80°)	1992.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	158.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3
2.5°	4104.0	4099.2	4096.8	4111.2	4106.4	4104.0	4104.0	4101.6	4096.8	4077.6	4051.1
5°	4217.1	4207.5	4197.8	4209.9	4200.3	4190.6	4188.2	4183.4	4166.6	4137.7	4096.8
7.5°	4335.0	4325.3	4327.8	4335.0	4327.8	4322.9	4315.7	4310.9	4284.5	4238.7	4183.4
10°	4501.0	4501.0	4505.8	4513.0	4515.4	4508.2	4493.7	4486.5	4455.3	4397.5	4320.5
12.5°	4741.5	4736.7	4736.7	4731.9	4739.1	4731.9	4717.5	4705.4	4667.0	4592.4	4481.7
15°	5059.1	5039.8	5023.0	4991.7	4982.1	4955.6	4960.4	4953.2	4917.1	4816.1	4676.6
17.5°	5398.3	5395.9	5369.4	5306.9	5244.3	5201.0	5210.6	5208.2	5189.0	5051.9	4873.8
20°	5696.6	5708.6	5684.5	5636.4	5552.2	5470.4	5465.6	5477.7	5453.6	5316.5	5068.7
22.5°	6031.0	6021.3	5997.3	5934.7	5872.2	5785.6	5756.7	5747.1	5737.5	5581.1	5268.4
25°	6348.5	6377.4	6346.1	6288.4	6192.1	6098.3	6074.3	6083.9	6057.4	5850.5	5482.5
27.5°	6750.2	6762.3	6743.0	6663.6	6581.8	6449.5	6403.8	6403.8	6394.2	6103.1	5650.9
30°	7178.4	7212.1	7178.4	7113.5	7029.3	6839.2	6740.6	6731.0	6702.1	6362.9	5848.1
32.5°	7609.1	7633.1	7609.1	7546.5	7450.3	7284.3	7142.4	7120.7	7082.2	6646.8	6050.2
35°	7991.6	8013.2	8008.4	8022.8	7943.4	7734.1	7647.5	7637.9	7536.9	7017.3	6324.4
37.5°	8410.1	8436.6	8400.5	8429.4	8398.1	8200.8	8174.4	8126.3	7981.9	7366.1	6613.1
40°	8886.5	8910.5	8852.8	8864.8	8828.7	8718.1	8583.3	8518.4	8304.3	7743.8	7067.8
42.5°	9396.4	9451.8	9478.2	9456.6	9372.4	9309.8	9074.1	8992.3	8814.3	8424.6	7815.9
45°	10135.0	10216.8	10255.3	10199.9	10163.8	10074.8	9786.2	9687.5	9593.7	9384.4	8860.0
47.5°	10931.2	11005.8	11128.5	11152.6	11181.4	11114.1	10707.5	10611.3	10628.1	10604.1	10144.6
50°	11566.3	11628.9	11905.5	12201.4	12446.8	12466.0	11946.4	11843.0	11934.4	12011.4	11691.4
52.5°	12028.2	12083.6	12449.2	13060.2	13615.9	14027.3	13466.8	13348.9	13423.5	13596.7	13450.0
55°	12403.5	12480.5	12863.0	13801.2	14924.6	15574.1	15215.7	15066.6	15035.3	15249.4	15333.6
57.5°	12600.8	12624.8	13161.3	14380.9	15884.5	17092.1	17248.5	17080.1	16781.8	16899.7	17337.5
60°	12150.9	12191.8	12925.5	14530.1	16642.2	18598.0	19382.3	19242.7	18607.7	18672.6	19156.1
62.5°	10907.2	10964.9	11847.8	13820.4	16704.8	19603.6	21352.5	21263.5	20411.9	20060.7	20205.0
65°	8749.3	8768.6	9682.7	12064.3	15461.1	19728.7	22726.1	22704.5	21672.5	20849.7	20231.5
67.5°	4989.3	4955.6	6177.7	8605.0	12759.5	18102.5	22815.1	22942.6	22081.4	20719.8	18547.5
70°	2162.7	2167.5	2730.4	4246.0	8258.6	14631.1	21191.3	21410.2	20897.8	18557.1	14756.2
72.5°	1000.7	1015.2	1258.2	1837.9	3526.7	9076.5	17279.7	17477.0	17036.8	14852.4	10736.4
75°	707.3	719.3	839.6	1053.7	1621.4	3536.3	11559.1	11972.9	12187.0	11109.3	7075.0
77.5°	536.5	553.3	613.4	731.3	1000.7	1253.3	5530.6	6516.9	7763.0	6911.4	3644.6
80°	341.6	341.6	406.6	488.3	611.0	651.9	1597.3	1893.2	3798.5	2848.3	1431.4
82.5°	230.9	238.2	276.6	310.3	351.2	370.5	685.6	731.3	1097.0	969.5	589.4
85°	122.7	127.5	144.3	141.9	168.4	146.7	288.7	286.3	401.7	440.2	223.7
87.5°	0.0	0.0	2.4	2.4	4.8	7.2	31.3	33.7	84.2	134.7	74.6
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°	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3	4046.3
2.5°	4065.5	4036.7	4051.1	4046.3	4060.7	4060.7	4034.3	4027.0	4029.5	4000.6	3991.0
5°	4101.6	4067.9	4075.2	4065.5	4080.0	4092.0	4080.0	4080.0	4094.4	4072.8	4060.7
7.5°	4183.4	4144.9	4144.9	4132.9	4149.7	4159.4	4149.7	4164.2	4190.6	4169.0	4157.0
10°	4313.3	4267.6	4270.0	4255.6	4262.8	4258.0	4219.5	4207.5	4214.7	4195.4	4185.8
12.5°	4481.7	4419.2	4419.2	4390.3	4373.5	4322.9	4243.6	4214.7	4219.5	4202.7	4195.4
15°	4642.9	4585.2	4573.1	4515.4	4438.4	4344.6	4272.4	4253.2	4258.0	4241.2	4229.1
17.5°	4832.9	4758.4	4715.1	4609.2	4467.3	4371.1	4298.9	4253.2	4214.7	4176.2	4166.6
20°	5008.6	4914.7	4835.3	4671.8	4498.6	4366.2	4231.5	4118.5	4024.6	3974.1	3962.1
22.5°	5189.0	5068.7	4929.2	4715.1	4496.1	4279.6	4031.9	3861.1	3721.5	3647.0	3661.4
25°	5359.8	5208.2	5018.2	4756.0	4419.2	4087.2	3750.4	3495.4	3336.6	3278.9	3262.1
27.5°	5501.7	5314.1	5100.0	4736.7	4260.4	3810.5	3365.5	3081.6	2927.7	2862.7	2845.9
30°	5660.5	5448.8	5217.8	4647.7	4010.2	3423.2	2930.1	2699.1	2588.5	2525.9	2528.3
32.5°	5843.3	5622.0	5383.8	4476.9	3690.3	3004.6	2571.6	2412.9	2323.9	2261.3	2251.7
35°	6088.7	5869.8	5494.5	4219.5	3283.7	2619.7	2326.3	2196.4	2085.7	2003.9	1987.1
37.5°	6391.8	6242.6	5506.5	3875.5	2848.3	2355.1	2150.6	2011.1	1876.4	1768.1	1756.1
40°	6911.4	6740.6	5407.9	3444.9	2477.8	2184.3	2003.9	1842.7	1686.4	1566.1	1549.2
42.5°	7652.4	7301.1	5196.2	2958.9	2198.8	2049.6	1864.4	1659.9	1501.1	1416.9	1404.9
45°	8595.4	7926.6	4878.6	2501.9	1991.9	1917.3	1717.6	1503.5	1419.3	1359.2	1347.2
47.5°	9750.1	8655.5	4513.0	2145.8	1830.7	1797.0	1568.5	1450.6	1376.0	1325.5	1313.5
50°	11130.9	9584.1	4212.3	1866.8	1686.4	1657.5	1520.4	1419.3	1359.2	1318.3	1308.7
52.5°	12706.6	10616.1	4065.5	1667.1	1561.3	1532.4	1503.5	1412.1	1361.6	1330.3	1318.3
55°	14342.5	11703.5	3928.4	1513.2	1455.4	1472.3	1505.9	1436.2	1397.7	1356.8	1344.8
57.5°	15923.0	12723.5	3591.6	1392.9	1378.4	1443.4	1518.0	1460.2	1414.5	1373.6	1359.2
60°	17012.7	13281.6	3021.5	1296.6	1320.7	1407.3	1486.7	1424.1	1366.4	1349.6	1342.3
62.5°	17306.2	13214.2	2345.5	1198.0	1250.9	1327.9	1404.9	1364.0	1303.9	1330.3	1332.7
65°	16620.6	12492.5	1760.9	1101.8	1159.5	1224.5	1320.7	1303.9	1282.2	1354.4	1356.8
67.5°	14679.2	10719.6	1342.3	1017.6	1065.7	1145.1	1294.2	1364.0	1368.8	1460.2	1450.6
70°	11106.9	8008.4	1051.3	938.2	993.5	1145.1	1378.4	1409.7	1352.0	1436.2	1416.9
72.5°	7678.8	5285.2	894.9	868.4	904.5	1092.2	1376.0	1376.0	1313.5	1313.5	1277.4
75°	4770.4	3108.1	779.4	779.4	779.4	955.0	1337.5	1267.8	1157.1	1106.6	1077.7
77.5°	2355.1	1510.7	654.3	678.4	651.9	798.7	1092.2	1036.8	969.5	916.6	897.3
80°	1005.6	755.4	529.2	555.7	524.4	601.4	866.0	854.0	789.1	719.3	697.6
82.5°	461.9	389.7	423.4	435.4	382.5	452.3	632.7	632.7	596.6	500.4	464.3
85°	197.3	206.9	293.5	293.5	240.6	255.0	339.2	322.4	288.7	235.8	216.5
87.5°	67.4	101.0	149.1	129.9	50.5	21.7	12.0	4.8	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)