

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: P640754

Luminaire Tested: GWS-SA5E-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640754
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-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37566.2 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

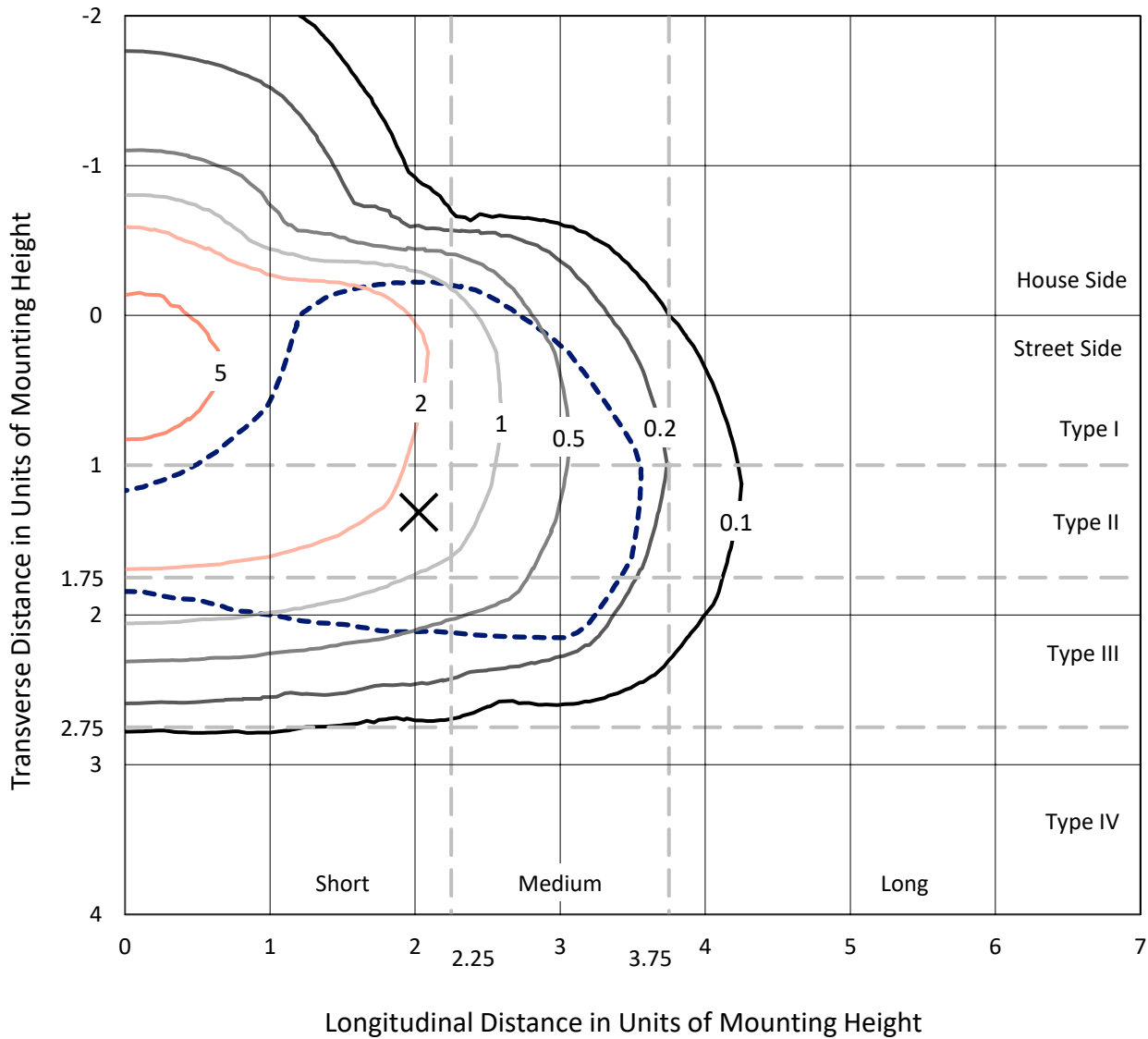
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

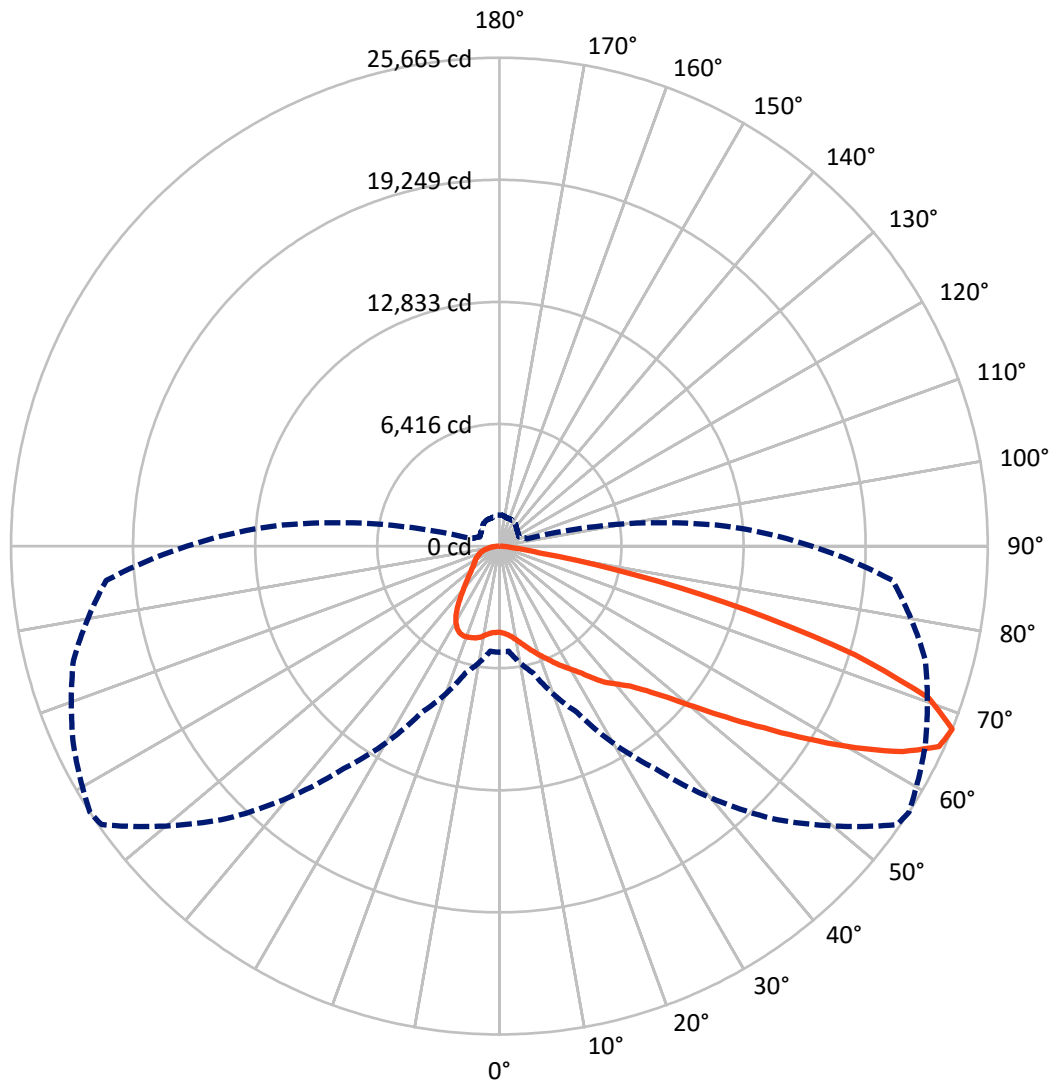
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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	8259.4	0.0	8259.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29306.8	0.0	29306.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	37566.2	0.0	37566.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.9	1.2
10°-20°	1486.2	4.0
20°-30°	2649.6	7.1
30°-40°	3852.2	10.3
40°-50°	5575.4	14.8
50°-60°	8725.3	23.2
60°-70°	10178.6	27.1
70°-80°	4249.0	11.3
80°-90°	401.0	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°	37566.2	100.0
0°-180°	37566.2	100.0

Coefficient of Utilization



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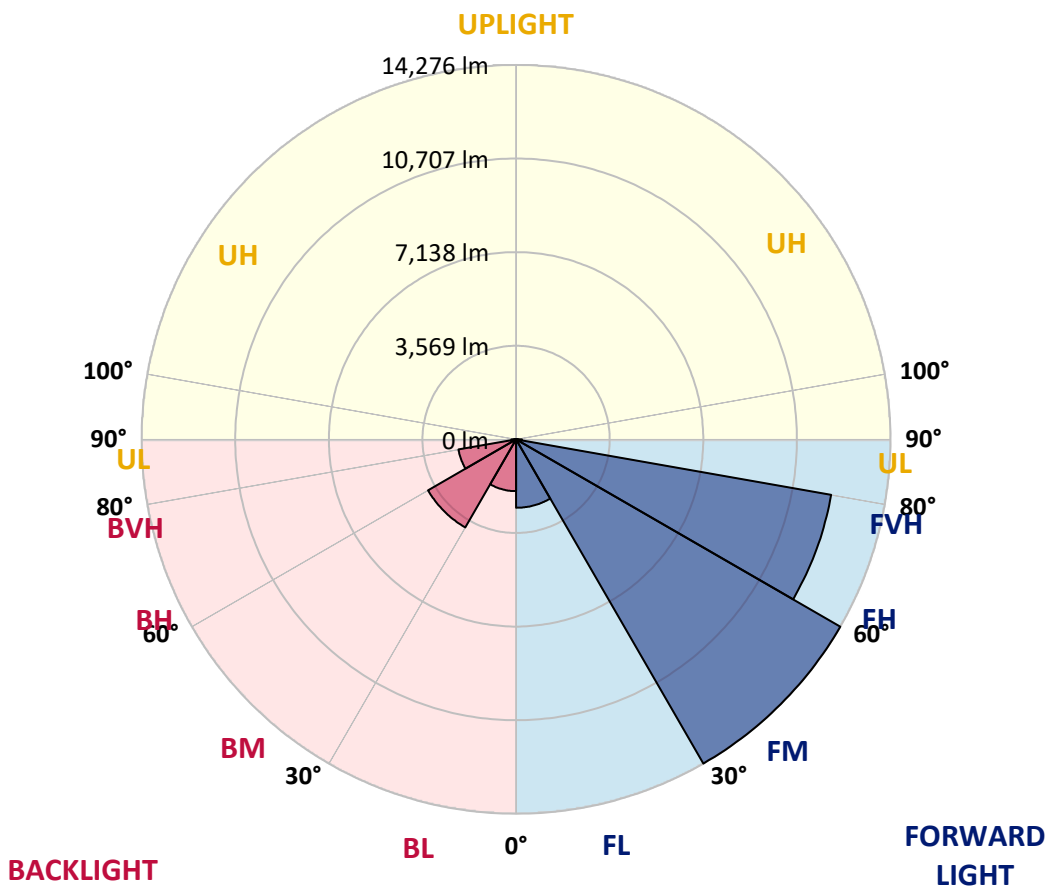
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.3	6.9			
FM (30°-60°)	14275.7	38.0			
FH (60°-80°)	12198.4	32.5			G5
FVH (80°-90°)	223.4	0.6			G2/225
BL (0°-30°)	1975.4	5.3	B3/2500		
BM (30°-60°)	3877.2	10.3	B3/5000		
BH (60°-80°)	2229.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	177.6	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°	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5
2.5°	4591.1	4585.7	4583.0	4599.1	4593.7	4591.1	4591.1	4588.4	4583.0	4561.5	4531.9
5°	4717.5	4706.8	4696.0	4709.5	4698.7	4687.9	4685.2	4679.9	4661.0	4628.7	4583.0
7.5°	4849.4	4838.6	4841.3	4849.4	4841.3	4836.0	4827.9	4822.5	4792.9	4741.8	4679.9
10°	5035.1	5035.1	5040.5	5048.5	5051.2	5043.2	5027.0	5018.9	4984.0	4919.4	4833.3
12.5°	5304.2	5298.8	5298.8	5293.4	5301.5	5293.4	5277.3	5263.8	5220.8	5137.4	5013.6
15°	5659.4	5637.9	5619.1	5584.1	5573.3	5543.7	5549.1	5541.0	5500.7	5387.6	5231.5
17.5°	6038.9	6036.2	6006.6	5936.6	5866.7	5818.2	5829.0	5826.3	5804.8	5651.4	5452.2
20°	6372.6	6386.0	6359.1	6305.3	6211.1	6119.6	6114.2	6127.7	6100.8	5947.4	5670.2
22.5°	6746.6	6735.9	6709.0	6639.0	6569.0	6472.2	6439.9	6429.1	6418.3	6243.4	5893.6
25°	7101.9	7134.2	7099.2	7034.6	6927.0	6822.0	6795.1	6805.9	6776.3	6544.8	6133.1
27.5°	7551.3	7564.8	7543.2	7454.4	7362.9	7214.9	7163.8	7163.8	7153.0	6827.4	6321.5
30°	8030.3	8068.0	8030.3	7957.7	7863.5	7650.9	7540.5	7529.8	7497.5	7118.0	6542.1
32.5°	8512.0	8538.9	8512.0	8442.1	8334.4	8148.7	7989.9	7965.7	7922.7	7435.6	6768.2
35°	8939.9	8964.1	8958.8	8974.9	8886.1	8652.0	8555.1	8544.3	8431.3	7850.0	7075.0
37.5°	9408.2	9437.8	9397.4	9429.7	9394.7	9174.0	9144.4	9090.6	8929.2	8240.2	7397.9
40°	9941.0	9967.9	9903.3	9916.8	9876.4	9752.6	9601.9	9529.3	9289.8	8662.7	7906.5
42.5°	10511.5	10573.4	10603.0	10578.8	10484.6	10414.7	10150.9	10059.4	9860.3	9424.3	8743.5
45°	11337.7	11429.2	11472.3	11410.4	11370.0	11270.4	10947.5	10837.2	10732.2	10498.1	9911.4
47.5°	12228.5	12311.9	12449.1	12476.1	12508.3	12433.0	11978.2	11870.5	11889.4	11862.5	11348.5
50°	12938.9	13008.9	13318.4	13649.4	13923.9	13945.4	13364.1	13248.4	13350.7	13436.8	13078.9
52.5°	13455.6	13517.5	13926.6	14610.1	15231.8	15691.9	15064.9	14933.0	15016.5	15210.2	15046.1
55°	13875.4	13961.6	14389.4	15439.0	16695.7	17422.3	17021.4	16854.5	16819.5	17059.0	17153.2
57.5°	14096.1	14123.0	14723.1	16087.5	17769.5	19120.4	19295.4	19107.0	18773.3	18905.1	19394.9
60°	13592.9	13638.6	14459.4	16254.4	18617.2	20805.1	21682.4	21526.3	20815.8	20888.5	21429.4
62.5°	12201.6	12266.1	13253.8	15460.5	18687.2	21930.0	23886.4	23786.8	22834.2	22441.3	22602.8
65°	9787.6	9809.1	10831.8	13496.0	17295.9	22069.9	25423.1	25398.8	24244.3	23324.0	22632.4
67.5°	5581.4	5543.7	6910.8	9626.2	14273.7	20250.7	25522.6	25665.3	24701.8	23178.7	20748.6
70°	2419.3	2424.7	3054.4	4749.8	9238.6	16367.4	23706.1	23951.0	23377.8	20759.3	16507.4
72.5°	1119.5	1135.7	1407.5	2056.0	3945.2	10153.6	19330.3	19551.0	19058.5	16615.0	12010.5
75°	791.2	804.6	939.2	1178.7	1813.8	3956.0	12930.9	13393.7	13633.2	12427.6	7914.6
77.5°	600.1	619.0	686.2	818.1	1119.5	1402.1	6186.9	7290.3	8684.3	7731.6	4077.1
80°	382.1	382.1	454.8	546.3	683.5	729.3	1786.9	2117.9	4249.3	3186.3	1601.2
82.5°	258.3	266.4	309.5	347.2	392.9	414.4	767.0	818.1	1227.2	1084.5	659.3
85°	137.2	142.6	161.5	158.8	188.4	164.2	322.9	320.2	449.4	492.5	250.3
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	35.0	37.7	94.2	150.7	83.4
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°	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5	4526.5
2.5°	4548.0	4515.7	4531.9	4526.5	4542.6	4542.6	4513.0	4504.9	4507.6	4475.3	4464.6
5°	4588.4	4550.7	4558.8	4548.0	4564.1	4577.6	4564.1	4564.1	4580.3	4556.1	4542.6
7.5°	4679.9	4636.8	4636.8	4623.4	4642.2	4653.0	4642.2	4658.3	4687.9	4663.7	4650.3
10°	4825.2	4774.1	4776.7	4760.6	4768.7	4763.3	4720.2	4706.8	4714.9	4693.3	4682.6
12.5°	5013.6	4943.6	4943.6	4911.3	4892.5	4836.0	4747.1	4714.9	4720.2	4701.4	4693.3
15°	5193.9	5129.3	5115.8	5051.2	4965.1	4860.2	4779.4	4757.9	4763.3	4744.5	4731.0
17.5°	5406.5	5323.0	5274.6	5156.2	4997.4	4889.8	4809.0	4757.9	4714.9	4671.8	4661.0
20°	5602.9	5498.0	5409.2	5226.2	5032.4	4884.4	4733.7	4607.2	4502.3	4445.7	4432.3
22.5°	5804.8	5670.2	5514.1	5274.6	5029.7	4787.5	4510.3	4319.3	4163.2	4079.7	4095.9
25°	5995.8	5826.3	5613.7	5320.4	4943.6	4572.2	4195.5	3910.2	3732.6	3668.0	3649.2
27.5°	6154.6	5944.7	5705.2	5298.8	4766.0	4262.7	3764.9	3447.3	3275.1	3202.4	3183.6
30°	6332.2	6095.4	5837.0	5199.3	4486.1	3829.5	3277.8	3019.4	2895.6	2825.7	2828.4
32.5°	6536.7	6289.2	6022.7	5008.2	4128.2	3361.2	2876.8	2699.2	2599.6	2529.7	2518.9
35°	6811.2	6566.3	6146.5	4720.2	3673.4	2930.6	2602.3	2457.0	2333.2	2241.7	2222.9
37.5°	7150.3	6983.5	6160.0	4335.4	3186.3	2634.6	2405.9	2249.8	2099.1	1978.0	1964.5
40°	7731.6	7540.5	6049.6	3853.7	2771.9	2443.5	2241.7	2061.4	1886.5	1751.9	1733.1
42.5°	8560.5	8167.6	5812.8	3310.1	2459.7	2292.8	2085.6	1856.9	1679.3	1585.1	1571.6
45°	9615.4	8867.3	5457.6	2798.8	2228.3	2144.8	1921.5	1682.0	1587.8	1520.5	1507.0
47.5°	10907.1	9682.7	5048.5	2400.5	2047.9	2010.3	1754.6	1622.7	1539.3	1482.8	1469.4
50°	12451.8	10721.4	4712.2	2088.3	1886.5	1854.2	1700.8	1587.8	1520.5	1474.7	1464.0
52.5°	14214.5	11875.9	4548.0	1864.9	1746.5	1714.2	1682.0	1579.7	1523.2	1488.2	1474.7
55°	16044.5	13092.3	4394.6	1692.7	1628.1	1647.0	1684.6	1606.6	1563.5	1517.8	1504.3
57.5°	17812.6	14233.4	4017.8	1558.2	1542.0	1614.7	1698.1	1633.5	1582.4	1536.6	1520.5
60°	19031.6	14857.7	3380.1	1450.5	1477.4	1574.3	1663.1	1593.1	1528.6	1509.7	1501.6
62.5°	19359.9	14782.3	2623.8	1340.2	1399.4	1485.5	1571.6	1525.9	1458.6	1488.2	1490.9
65°	18593.0	13975.0	1969.9	1232.5	1297.1	1369.8	1477.4	1458.6	1434.4	1515.1	1517.8
67.5°	16421.2	11991.7	1501.6	1138.3	1192.2	1281.0	1447.8	1525.9	1531.2	1633.5	1622.7
70°	12424.9	8958.8	1176.0	1049.5	1111.4	1281.0	1542.0	1577.0	1512.4	1606.6	1585.1
72.5°	8590.1	5912.4	1001.1	971.5	1011.9	1221.8	1539.3	1539.3	1469.4	1469.4	1429.0
75°	5336.5	3476.9	871.9	871.9	871.9	1068.4	1496.3	1418.2	1294.4	1237.9	1205.6
77.5°	2634.6	1690.0	732.0	758.9	729.3	893.5	1221.8	1159.9	1084.5	1025.3	1003.8
80°	1124.9	845.0	592.0	621.6	586.7	672.8	968.8	955.3	882.7	804.6	780.4
82.5°	516.7	436.0	473.6	487.1	427.9	505.9	707.8	707.8	667.4	559.8	519.4
85°	220.7	231.4	328.3	328.3	269.1	285.3	379.4	360.6	322.9	263.7	242.2
87.5°	75.4	113.0	166.8	145.3	56.5	24.2	13.5	5.4	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)