

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: P642658

Luminaire Tested: GWS-SA6D-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33931.4 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

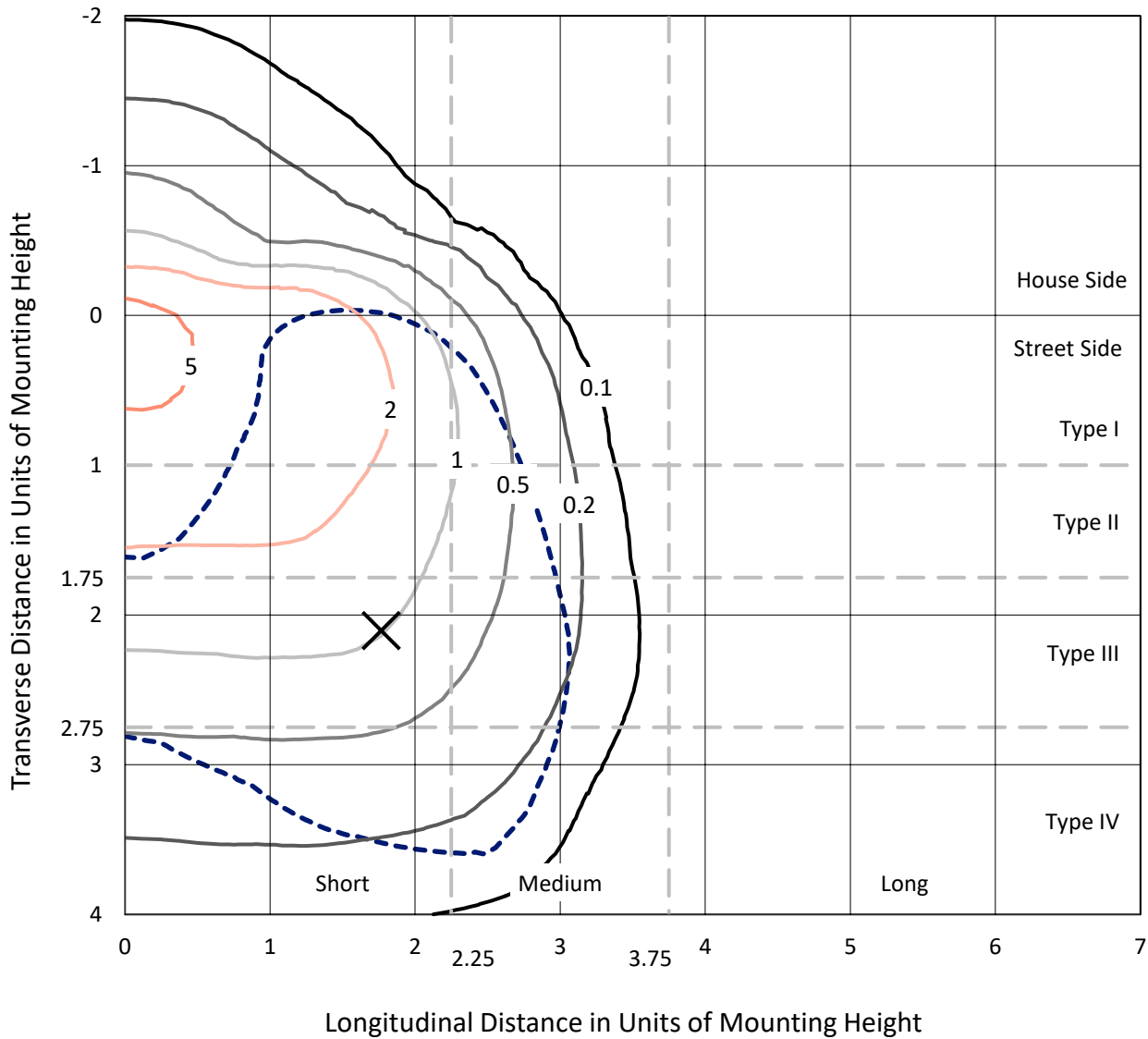
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

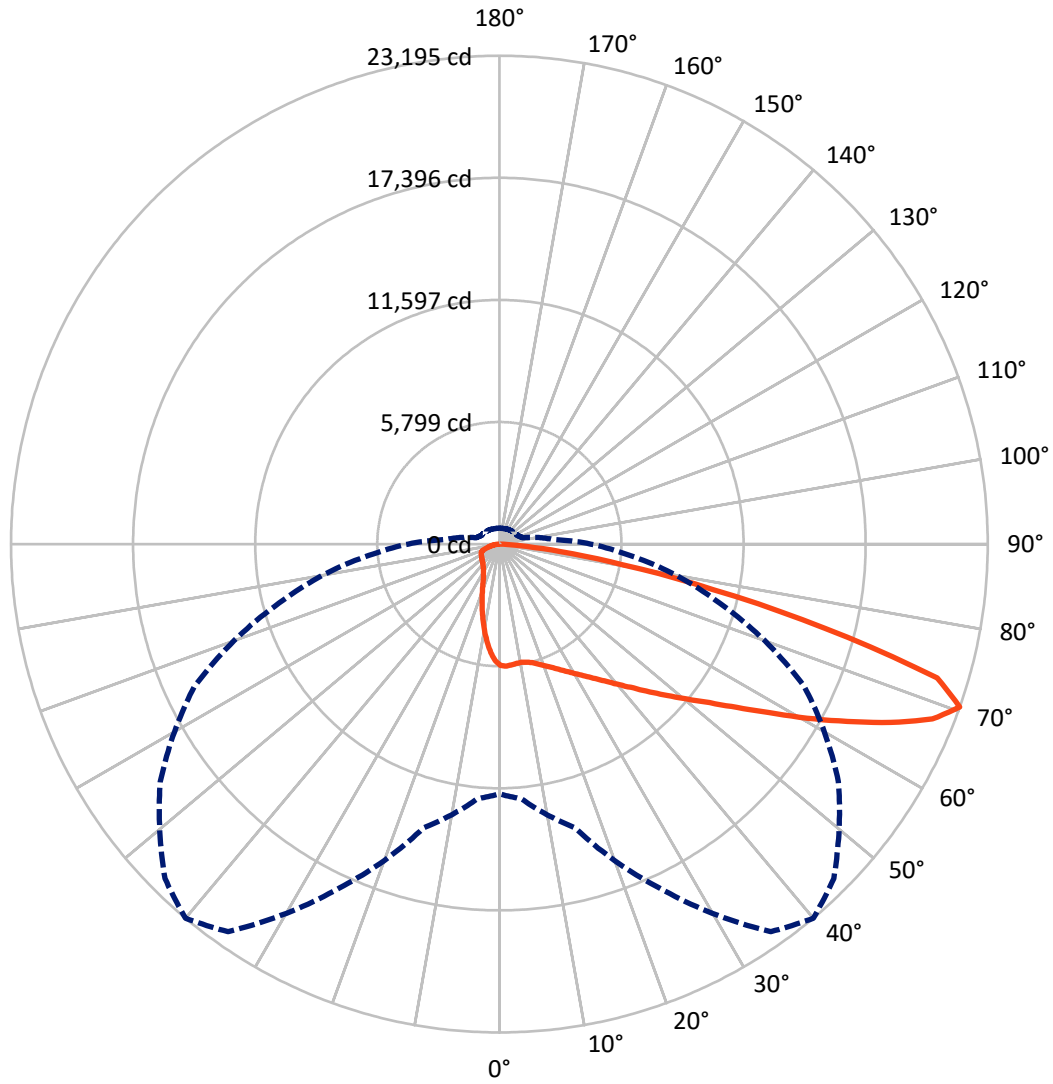
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5226.3	0.0	5226.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	28705.1	0.0	28705.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	33931.4	0.0	33931.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.0	1.5
10°-20°	1326.8	3.9
20°-30°	2083.3	6.1
30°-40°	3132.3	9.2
40°-50°	4834.8	14.2
50°-60°	7180.1	21.2
60°-70°	9050.4	26.7
70°-80°	5233.8	15.4
80°-90°	580.8	1.7
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°	33931.4	100.0
0°-180°	33931.4	100.0

Coefficient of Utilization



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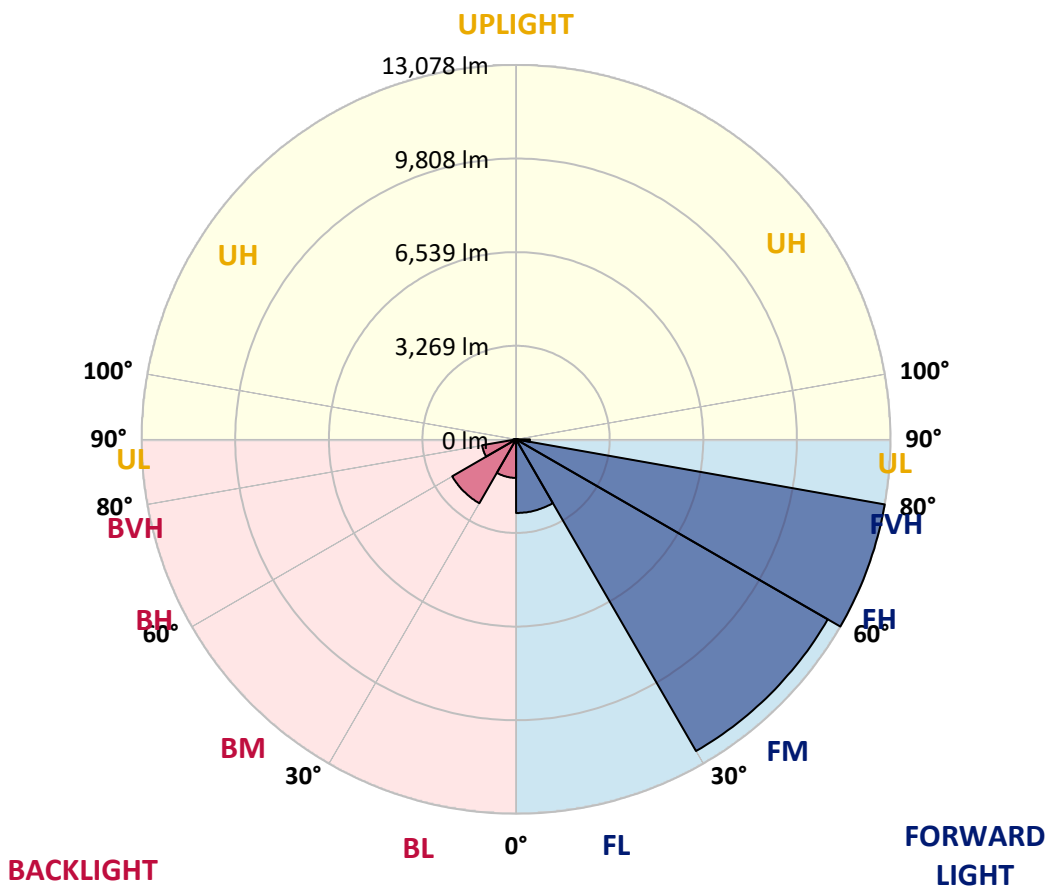
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2572.3	7.6			
FM (30°-60°)	12571.2	37.0			
FH (60°-80°)	13078.0	38.5			G5
FVH (80°-90°)	483.8	1.4			G3/500
BL (0°-30°)	1346.9	4.0	B3/2500		
BM (30°-60°)	2576.1	7.6	B3/5000		
BH (60°-80°)	1206.2	3.6	B3/2500		G3/2500
BVH (80°-90°)	97.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9
2.5°	5797.4	5807.5	5815.1	5825.3	5820.2	5805.0	5817.7	5817.7	5789.8	5759.4	5731.5
5°	5805.0	5817.7	5815.1	5812.6	5792.3	5767.0	5767.0	5751.8	5703.7	5655.6	5610.0
7.5°	5789.8	5787.3	5784.7	5777.1	5754.3	5726.5	5721.4	5691.0	5627.7	5561.9	5496.0
10°	5721.4	5718.9	5726.5	5744.2	5739.1	5713.8	5713.8	5686.0	5612.5	5531.5	5445.4
12.5°	5665.7	5665.7	5696.1	5744.2	5761.9	5751.8	5754.3	5734.1	5650.5	5554.3	5452.9
15°	5673.3	5675.8	5741.7	5820.2	5853.1	5845.5	5848.1	5825.3	5731.5	5635.3	5498.5
17.5°	5723.9	5736.6	5850.6	5959.5	6002.5	5992.4	5974.7	5936.7	5830.3	5721.4	5554.3
20°	5830.3	5850.6	5997.5	6134.3	6184.9	6162.1	6131.7	6055.7	5939.2	5820.2	5615.0
22.5°	6040.5	6053.2	6215.3	6349.5	6390.1	6362.2	6301.4	6192.5	6058.3	5934.2	5688.5
25°	6336.9	6352.1	6506.6	6630.7	6620.5	6587.6	6504.0	6369.8	6210.2	6078.5	5794.9
27.5°	6688.9	6714.2	6866.2	6965.0	6899.1	6851.0	6757.3	6595.2	6415.4	6296.3	5957.0
30°	7073.9	7084.0	7213.2	7312.0	7210.7	7144.8	7030.8	6856.1	6694.0	6605.3	6200.1
32.5°	7446.2	7456.3	7567.8	7623.5	7517.1	7469.0	7370.2	7185.3	7071.4	7023.2	6562.3
35°	7838.8	7836.2	7927.4	7975.5	7866.6	7846.4	7745.1	7603.2	7583.0	7646.3	7091.6
37.5°	8231.3	8208.5	8256.7	8320.0	8259.2	8279.5	8213.6	8165.5	8244.0	8408.6	7795.7
40°	8545.4	8545.4	8596.1	8674.6	8694.8	8783.5	8745.5	8808.8	9062.1	9454.6	8667.0
42.5°	8824.0	8826.5	8932.9	9054.5	9201.4	9338.1	9368.5	9533.2	10057.4	10672.9	9761.1
45°	9115.3	9117.8	9262.2	9439.5	9751.0	10011.8	10072.6	10442.4	11192.1	11941.8	10949.0
47.5°	9452.1	9424.3	9624.3	9920.7	10363.9	10738.7	10895.8	11420.0	12367.3	13289.2	12068.4
50°	9832.0	9773.8	9996.7	10508.3	11055.3	11569.5	11832.9	12433.1	13628.6	14532.8	13122.0
52.5°	10260.1	10227.1	10460.1	11083.2	11919.0	12511.6	12868.8	13656.4	14854.4	15771.3	13957.8
55°	10791.9	10713.4	11050.3	11843.0	12932.1	13686.8	14109.8	14867.1	16194.2	16895.8	14596.1
57.5°	11374.5	11288.3	11739.2	12792.8	14249.1	15077.3	15606.6	16229.7	17455.5	17756.9	14970.9
60°	12002.6	11974.7	12509.1	13907.2	15819.4	16781.8	17164.3	17729.0	18552.2	18255.9	14877.2
62.5°	12577.5	12567.4	13344.9	15115.3	17483.4	18542.1	18846.0	18995.4	19342.4	18222.9	14132.6
65°	13182.8	13268.9	14320.0	16515.9	19390.5	20428.9	20555.6	20175.7	19608.3	17359.3	12607.9
67.5°	13258.8	13426.0	14932.9	17827.8	21198.9	22179.0	22077.7	20623.9	18823.2	14955.7	9882.7
70°	11858.2	12149.5	13955.3	18027.9	22472.8	23194.7	22462.7	19659.0	15973.9	10835.0	6215.3
72.5°	9908.0	10158.7	11754.4	15373.6	20829.1	21748.5	20758.2	16640.0	11288.3	6215.3	3165.9
75°	7712.1	8003.4	9474.9	12220.4	15594.0	15961.2	15464.8	11604.9	6205.2	2563.1	1438.6
77.5°	4705.8	4916.0	6060.8	8279.5	10911.0	10361.4	8780.9	6506.6	2722.7	1228.4	889.0
80°	2081.9	2211.1	2986.1	4447.5	6303.9	5959.5	4698.2	2778.4	1489.2	780.1	620.5
82.5°	1116.9	1200.5	1471.5	1760.2	2768.3	2894.9	2347.8	1600.7	800.3	445.8	354.6
85°	491.3	539.5	668.6	638.2	909.2	894.1	901.6	1099.2	382.4	205.2	230.5
87.5°	0.0	0.0	0.0	0.0	2.5	2.5	27.9	146.9	38.0	60.8	53.2
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°	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9	5761.9
2.5°	5701.2	5655.6	5642.9	5627.7	5599.8	5551.7	5516.3	5475.7	5458.0	5437.8	5440.3
5°	5559.3	5503.6	5450.4	5382.0	5295.9	5199.7	5133.8	5057.8	5017.3	4979.3	4989.5
7.5°	5437.8	5351.6	5242.7	5098.4	4943.9	4771.6	4632.3	4523.4	4450.0	4399.3	4424.7
10°	5361.8	5260.5	5070.5	4835.0	4574.1	4310.7	4110.6	3923.2	3806.7	3715.5	3710.4
12.5°	5346.6	5214.9	4938.8	4596.9	4219.5	3867.5	3573.7	3320.4	3165.9	3051.9	3095.0
15°	5361.8	5194.6	4824.8	4376.5	3900.4	3424.2	3059.5	2768.3	2583.4	2479.5	2471.9
17.5°	5379.5	5174.3	4695.7	4138.5	3566.1	3021.5	2598.6	2289.6	2099.6	1995.8	1998.3
20°	5394.7	5144.0	4543.7	3877.6	3226.7	2646.7	2208.5	1914.7	1745.0	1669.1	1681.7
22.5°	5420.0	5113.6	4381.6	3599.0	2879.7	2284.5	1899.5	1661.5	1560.2	1509.5	1512.0
25°	5468.1	5095.8	4214.4	3295.1	2537.8	1995.8	1686.8	1527.2	1463.9	1433.5	1431.0
27.5°	5566.9	5111.0	4039.7	3001.3	2228.8	1775.4	1550.0	1446.2	1403.1	1382.9	1380.3
30°	5731.5	5171.8	3887.7	2702.4	1962.9	1603.2	1456.3	1393.0	1367.7	1349.9	1347.4
32.5°	5982.3	5285.8	3723.1	2423.8	1747.6	1476.6	1382.9	1349.9	1332.2	1322.1	1322.1
35°	6362.2	5493.5	3561.0	2180.7	1580.4	1377.8	1324.6	1311.9	1296.8	1291.7	1296.8
37.5°	6909.3	5825.3	3414.1	1967.9	1461.4	1301.8	1261.3	1266.4	1253.7	1261.3	1268.9
40°	7603.2	6268.5	3290.0	1793.2	1372.7	1246.1	1205.6	1223.3	1215.7	1223.3	1236.0
42.5°	8482.1	6818.1	3196.3	1656.4	1309.4	1200.5	1162.5	1180.2	1175.2	1185.3	1198.0
45°	9462.2	7542.4	3153.2	1560.2	1263.8	1167.6	1127.1	1139.7	1134.7	1142.3	1154.9
47.5°	10401.9	8201.0	3191.2	1504.4	1225.8	1139.7	1096.7	1101.7	1099.2	1096.7	1104.3
50°	11212.4	8725.2	3300.1	1486.7	1200.5	1111.9	1071.3	1073.9	1066.3	1051.1	1056.1
52.5°	11873.4	9145.7	3366.0	1486.7	1187.8	1081.5	1043.5	1046.0	1030.8	1010.6	1013.1
55°	12309.0	9315.3	3312.8	1484.2	1182.8	1056.1	1015.6	1018.2	1003.0	977.6	980.2
57.5°	12433.1	9150.7	3089.9	1456.3	1177.7	1035.9	987.8	992.8	982.7	954.8	954.8
60°	12086.1	8547.9	2682.2	1393.0	1165.1	1023.2	967.5	975.1	970.0	942.2	942.2
62.5°	11176.9	7476.6	2195.9	1296.8	1129.6	1008.0	949.8	965.0	977.6	962.4	959.9
65°	9474.9	5989.9	1785.6	1190.4	1084.0	982.7	924.4	962.4	990.3	1010.6	1010.6
67.5°	7109.3	4287.9	1456.3	1078.9	1015.6	932.0	891.5	927.0	947.2	959.9	967.5
70°	4333.5	2522.6	1147.3	949.8	916.8	856.1	825.7	790.2	762.3	757.3	759.8
72.5°	2119.9	1443.7	932.0	807.9	782.6	726.9	658.5	643.3	630.6	623.0	620.5
75°	1167.6	1005.5	769.9	671.2	625.6	557.2	542.0	516.7	511.6	501.5	504.0
77.5°	825.7	792.7	635.7	544.5	476.2	440.7	448.3	430.6	430.6	423.0	420.4
80°	620.5	623.0	488.8	397.6	352.0	339.4	347.0	347.0	341.9	339.4	336.9
82.5°	392.6	443.2	329.3	255.8	250.7	253.3	250.7	248.2	253.3	245.7	243.1
85°	271.0	319.1	200.1	152.0	152.0	149.4	154.5	152.0	157.0	149.4	149.4
87.5°	60.8	141.8	73.4	45.6	48.1	45.6	48.1	50.7	55.7	58.3	58.3
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)