

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: P640236

Luminaire Tested: GWS-SA5D-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29434.7 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

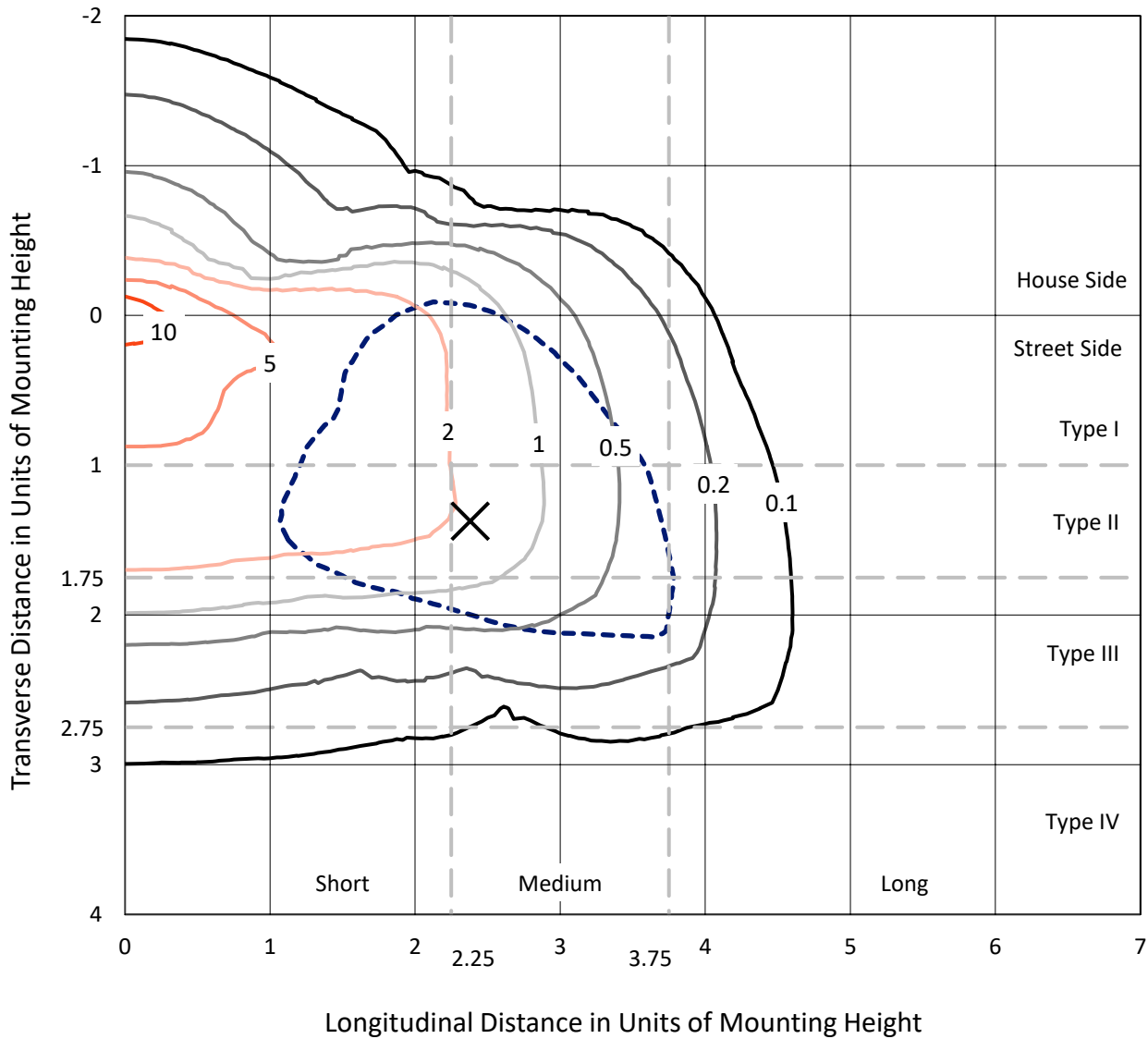
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

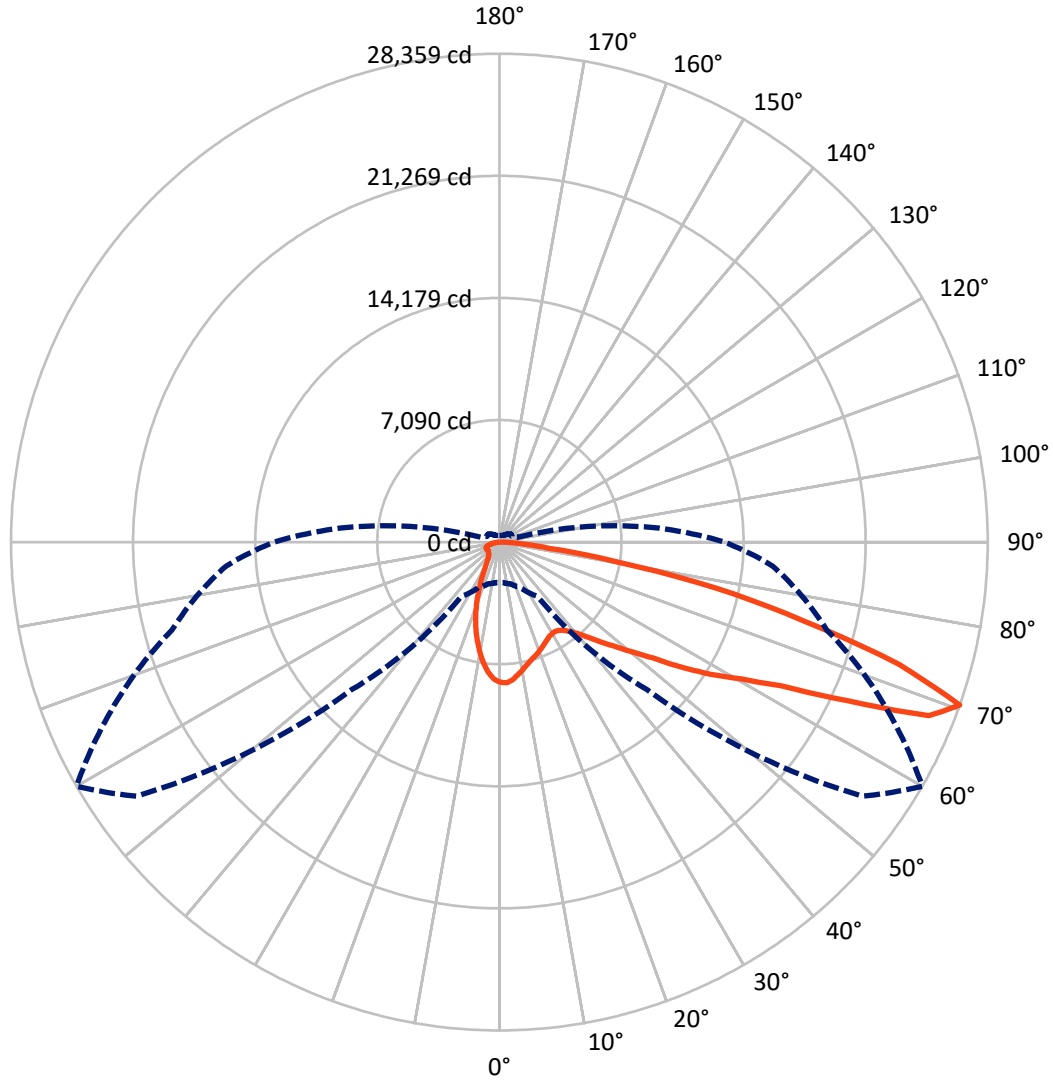
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5034.0	0.0	5034.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24400.7	0.0	24400.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	29434.7	0.0	29434.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.1	2.4
10°-20°	1572.8	5.3
20°-30°	2014.3	6.8
30°-40°	2647.3	9.0
40°-50°	3840.8	13.0
50°-60°	5992.5	20.4
60°-70°	7845.3	26.7
70°-80°	4338.2	14.7
80°-90°	481.4	1.6
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°	29434.7	100.0
0°-180°	29434.7	100.0

Coefficient of Utilization



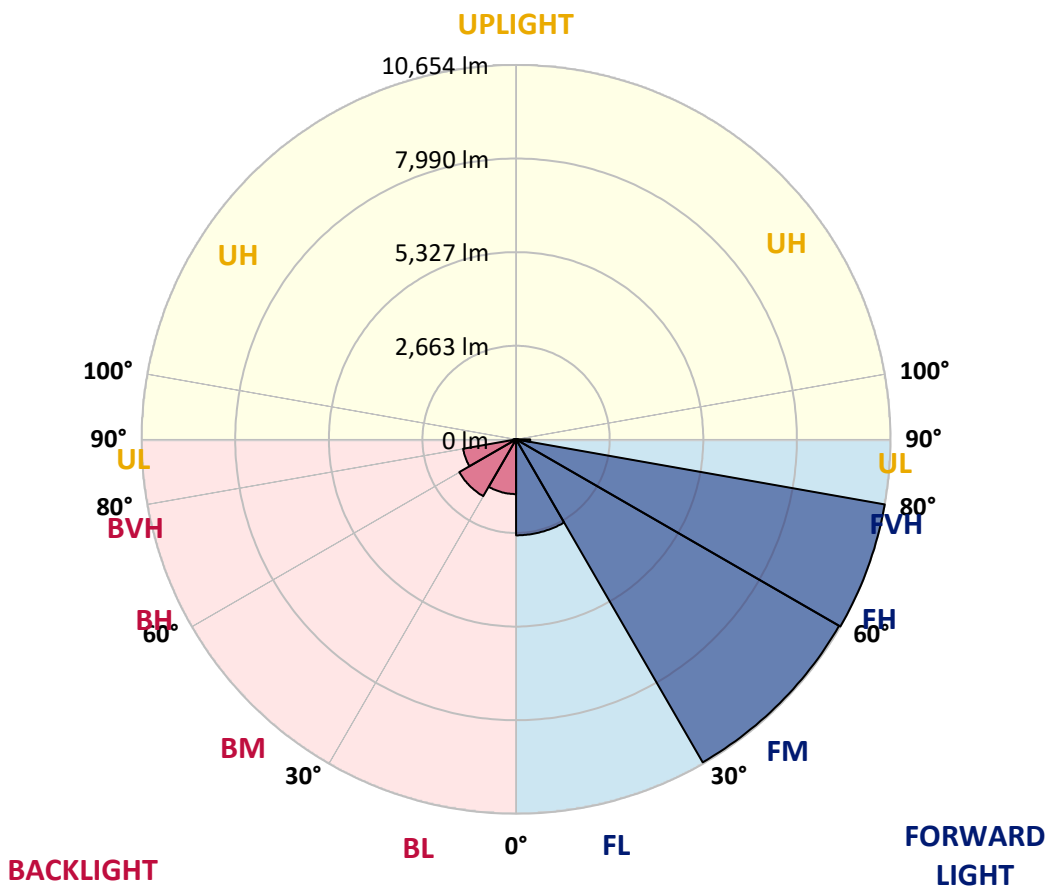
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2731.7	9.3			
FM (30°-60°)	10614.0	36.1			
FH (60°-80°)	10653.7	36.2			G4/12000
FVH (80°-90°)	401.2	1.4			G3/500
BL (0°-30°)	1557.5	5.3	B3/2500		
BM (30°-60°)	1866.5	6.3	B2/2500		
BH (60°-80°)	1529.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	80.3	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0
2.5°	8030.8	8039.4	8063.1	8097.6	8132.0	8149.3	8192.3	8179.4	8170.8	8153.6	8132.0
5°	7675.5	7692.7	7714.2	7781.0	7856.4	7916.7	8013.6	8024.4	8028.7	8037.3	8002.8
7.5°	7223.2	7227.5	7279.2	7367.5	7466.6	7569.9	7731.5	7776.7	7815.5	7858.5	7830.5
10°	6723.6	6734.3	6773.1	6900.2	7070.3	7223.2	7440.7	7516.1	7597.9	7692.7	7653.9
12.5°	6314.4	6316.5	6379.0	6514.7	6699.9	6906.6	7178.0	7268.4	7376.1	7524.7	7490.3
15°	5989.2	5989.2	6047.3	6163.6	6376.8	6620.2	6943.2	7059.5	7206.0	7406.3	7346.0
17.5°	5730.8	5732.9	5769.5	5892.3	6081.8	6351.0	6734.3	6891.6	7053.1	7318.0	7227.5
20°	5595.1	5584.3	5590.8	5666.2	5827.7	6088.3	6525.4	6708.5	6926.0	7257.7	7119.8
22.5°	5588.6	5569.2	5541.2	5547.7	5642.5	5857.8	6301.5	6523.3	6796.8	7208.1	7010.0
25°	5698.5	5676.9	5627.4	5571.4	5562.8	5692.0	6090.4	6342.4	6663.3	7186.6	6904.5
27.5°	5883.7	5868.6	5804.0	5720.0	5631.7	5627.4	5931.0	6193.8	6566.4	7208.1	6829.1
30°	6129.2	6103.3	6062.4	5954.7	5821.2	5683.4	5868.6	6114.1	6501.8	7277.1	6796.8
32.5°	6407.0	6391.9	6353.2	6245.5	6103.3	5883.7	5918.1	6131.3	6501.8	7397.7	6803.3
35°	6702.0	6699.9	6699.9	6628.8	6471.6	6198.1	6114.1	6277.8	6600.8	7591.5	6872.2
37.5°	6988.5	6986.3	7055.2	7081.1	6902.3	6607.3	6447.9	6570.7	6818.3	7877.9	7042.3
40°	7221.1	7229.7	7380.4	7509.6	7410.6	7137.1	6913.1	6975.6	7171.5	8284.9	7339.5
42.5°	7455.8	7479.5	7705.6	7933.9	7972.7	7735.8	7509.6	7546.3	7677.6	8823.4	7783.2
45°	7712.1	7722.9	8039.4	8358.2	8545.5	8405.5	8220.3	8269.9	8300.0	9488.8	8444.3
47.5°	7959.8	7987.7	8396.9	8834.1	9189.5	9176.5	9073.2	9058.1	9064.6	10298.6	9226.1
50°	8297.9	8338.8	8819.0	9346.7	9867.9	10106.9	10137.1	10022.9	9975.5	11198.8	10199.5
52.5°	8939.6	8939.6	9370.4	9889.4	10589.3	11181.6	11384.0	11196.6	11045.9	12150.7	11233.2
55°	9742.9	9777.4	10119.8	10539.8	11427.1	12312.2	12997.1	12790.3	12363.9	13186.6	12316.5
57.5°	10100.4	10143.5	10686.2	11338.8	12523.3	13597.9	14547.7	14474.4	13852.0	14263.4	13440.7
60°	9454.4	9544.8	10292.1	11386.1	13516.1	15671.8	16341.6	16128.4	15239.0	15394.0	14659.6
62.5°	7886.5	7985.6	8814.7	10341.6	13378.2	17913.7	19169.3	18383.2	16970.5	16821.9	16283.5
65°	4705.6	4701.3	5698.5	7722.9	11679.0	18536.1	23644.5	22177.9	19645.3	18781.7	17954.7
67.5°	2991.4	2984.9	3193.8	4091.9	7772.4	17011.4	26521.7	26902.9	23278.4	20222.4	18092.5
70°	2360.4	2358.2	2509.0	2918.1	3844.2	12105.5	25720.6	28358.8	25472.9	19673.3	15930.3
72.5°	1720.7	1725.0	1957.6	2444.4	2965.5	6077.5	20827.6	24264.8	23429.2	17366.7	12932.4
75°	1236.2	1242.6	1382.6	1871.5	2735.1	3323.0	13849.9	18245.4	17825.5	13921.0	8896.6
77.5°	786.1	794.7	917.4	1311.6	2209.6	2683.4	8396.9	12880.8	11859.9	7843.5	3163.7
80°	480.3	508.3	611.6	977.7	1766.0	2013.6	4197.4	6786.0	5939.7	2151.5	1063.9
82.5°	247.7	269.2	368.3	605.2	1216.8	1768.1	2375.4	2851.4	1839.2	900.2	566.4
85°	77.5	90.5	129.2	245.5	579.3	1096.2	1572.1	1417.1	844.2	424.3	262.7
87.5°	19.4	19.4	21.5	21.5	23.7	49.5	303.7	320.9	224.0	133.5	107.7
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°	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0	8145.0
2.5°	8089.0	8037.3	8015.7	8013.6	7959.8	7882.2	7830.5	7793.9	7772.4	7768.1	7768.1
5°	7944.7	7877.9	7789.6	7722.9	7578.6	7432.1	7309.4	7240.4	7160.8	7150.0	7147.8
7.5°	7753.0	7656.1	7488.1	7300.7	7048.8	6805.4	6598.7	6458.7	6318.7	6292.9	6284.2
10°	7546.3	7414.9	7128.5	6799.0	6422.1	6058.1	5741.5	5493.9	5330.2	5213.9	5192.4
12.5°	7341.7	7167.2	6747.3	6256.2	5739.4	5241.9	4765.9	4361.1	4068.2	3898.0	3867.9
15°	7150.0	6906.6	6331.6	5704.9	5033.0	4352.5	3678.4	3152.9	2741.5	2595.1	2560.6
17.5°	6975.6	6671.9	5928.9	5134.2	4296.5	3407.0	2640.3	2173.0	1931.8	1858.6	1841.3
20°	6801.1	6430.7	5519.7	4533.4	3514.7	2517.6	1929.6	1710.0	1619.5	1591.5	1582.9
22.5°	6613.7	6165.8	5073.9	3941.1	2724.3	1884.4	1578.6	1481.7	1453.7	1455.8	1453.7
25°	6426.4	5896.6	4606.6	3297.2	2028.7	1529.1	1378.3	1341.7	1348.2	1367.5	1371.9
27.5°	6271.3	5657.5	4147.9	2590.8	1585.1	1315.9	1244.8	1242.6	1266.3	1292.2	1296.5
30°	6159.3	5444.3	3695.6	1992.1	1305.1	1169.4	1141.4	1154.3	1182.3	1201.7	1208.2
32.5°	6079.6	5261.3	3213.2	1565.7	1143.6	1066.0	1053.1	1066.0	1083.3	1102.6	1107.0
35°	6051.7	5127.8	2739.4	1277.1	1033.7	990.7	982.0	988.5	997.1	1007.9	1012.2
37.5°	6114.1	5061.0	2244.1	1111.3	967.0	941.1	928.2	923.9	926.1	930.4	932.5
40°	6299.3	5091.1	1839.2	1014.4	923.9	900.2	878.7	870.1	867.9	872.2	870.1
42.5°	6618.1	5218.2	1546.3	958.4	889.4	855.0	831.3	822.7	822.7	833.4	833.4
45°	7085.4	5468.0	1335.2	917.4	859.3	816.2	790.4	786.1	794.7	811.9	814.1
47.5°	7770.2	5834.1	1208.2	887.3	831.3	781.8	755.9	753.8	771.0	799.0	801.1
50°	8582.1	6361.8	1139.3	865.8	811.9	753.8	727.9	730.1	749.5	779.6	786.1
52.5°	9559.9	7081.1	1143.6	857.1	801.1	736.5	710.7	706.4	725.8	755.9	762.4
55°	10569.9	7955.4	1227.6	859.3	786.1	727.9	693.5	678.4	695.6	717.2	719.3
57.5°	11681.2	8941.8	1436.5	855.0	766.7	719.3	678.4	643.9	654.7	667.6	674.1
60°	12934.6	10102.6	1886.6	863.6	758.1	699.9	648.2	603.0	600.9	609.5	611.6
62.5°	14610.1	11681.2	2392.7	878.7	777.5	676.2	603.0	555.6	547.0	551.3	553.5
65°	15891.5	12435.0	2233.3	865.8	818.4	659.0	559.9	510.4	493.2	488.9	488.9
67.5°	15370.3	11437.8	1554.9	831.3	837.8	661.2	525.5	463.0	441.5	430.7	428.6
70°	13078.9	9290.7	1081.1	796.8	816.2	656.9	488.9	424.3	396.3	381.2	379.0
72.5°	10333.0	7094.0	874.4	727.9	740.8	592.2	435.0	381.2	357.5	338.1	338.1
75°	6650.4	4328.8	730.1	648.2	605.2	460.9	376.9	340.3	316.6	297.2	297.2
77.5°	2237.6	1606.6	566.4	549.2	452.3	346.7	316.6	292.9	273.5	256.3	254.1
80°	908.8	762.4	415.6	415.6	316.6	264.9	247.7	236.9	224.0	202.4	202.4
82.5°	527.6	463.0	290.7	252.0	211.1	183.1	172.3	161.5	161.5	146.4	146.4
85°	254.1	256.3	174.4	155.1	120.6	105.5	101.2	94.8	92.6	84.0	81.8
87.5°	137.8	140.0	88.3	68.9	47.4	40.9	34.5	32.3	30.2	28.0	28.0
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)