

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: P630860

Luminaire Tested: GWS-SA1E-740-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-740-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

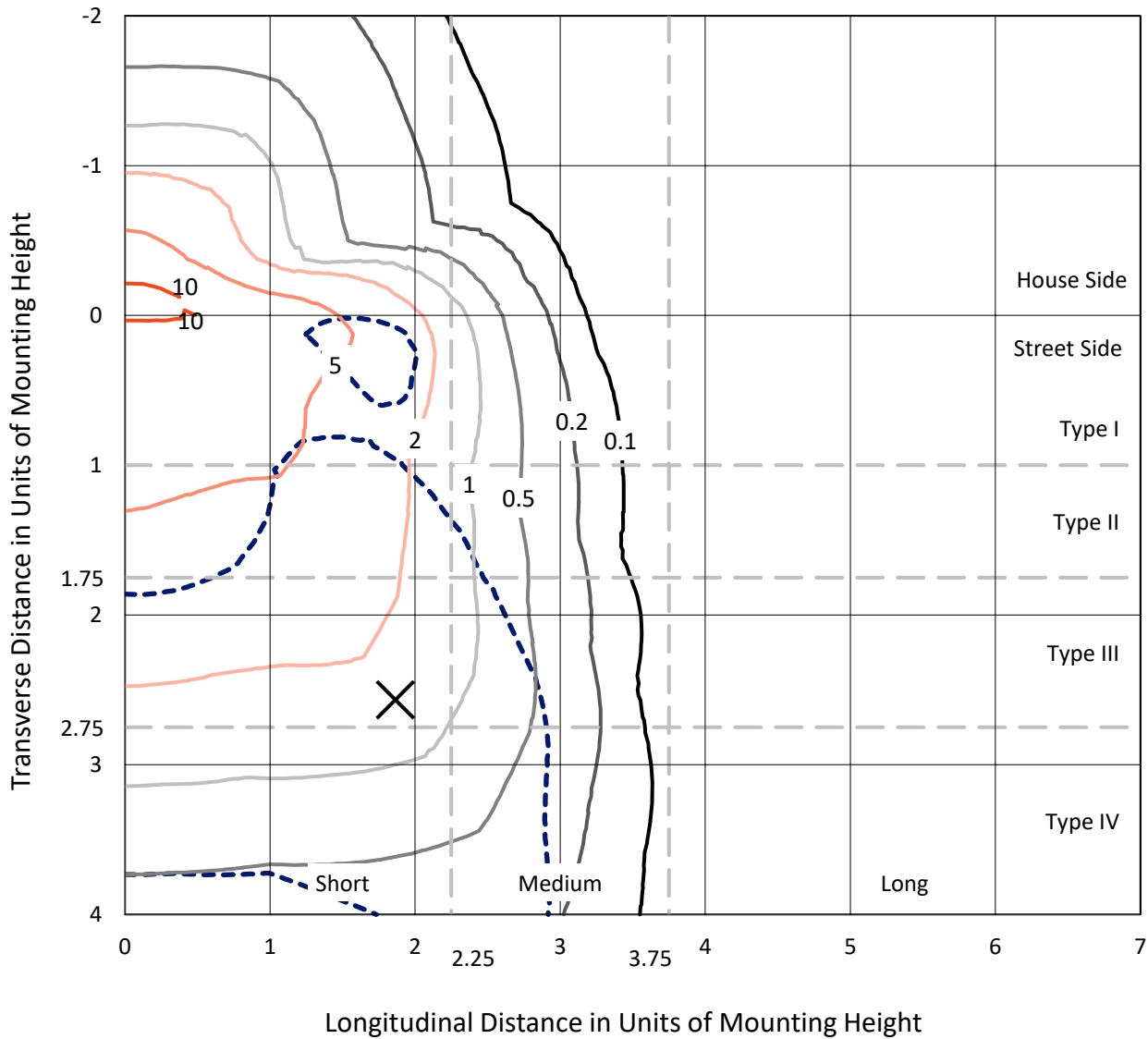
Lumens per Lamp: N/A  
Luminaire Lumens: 7319.3 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

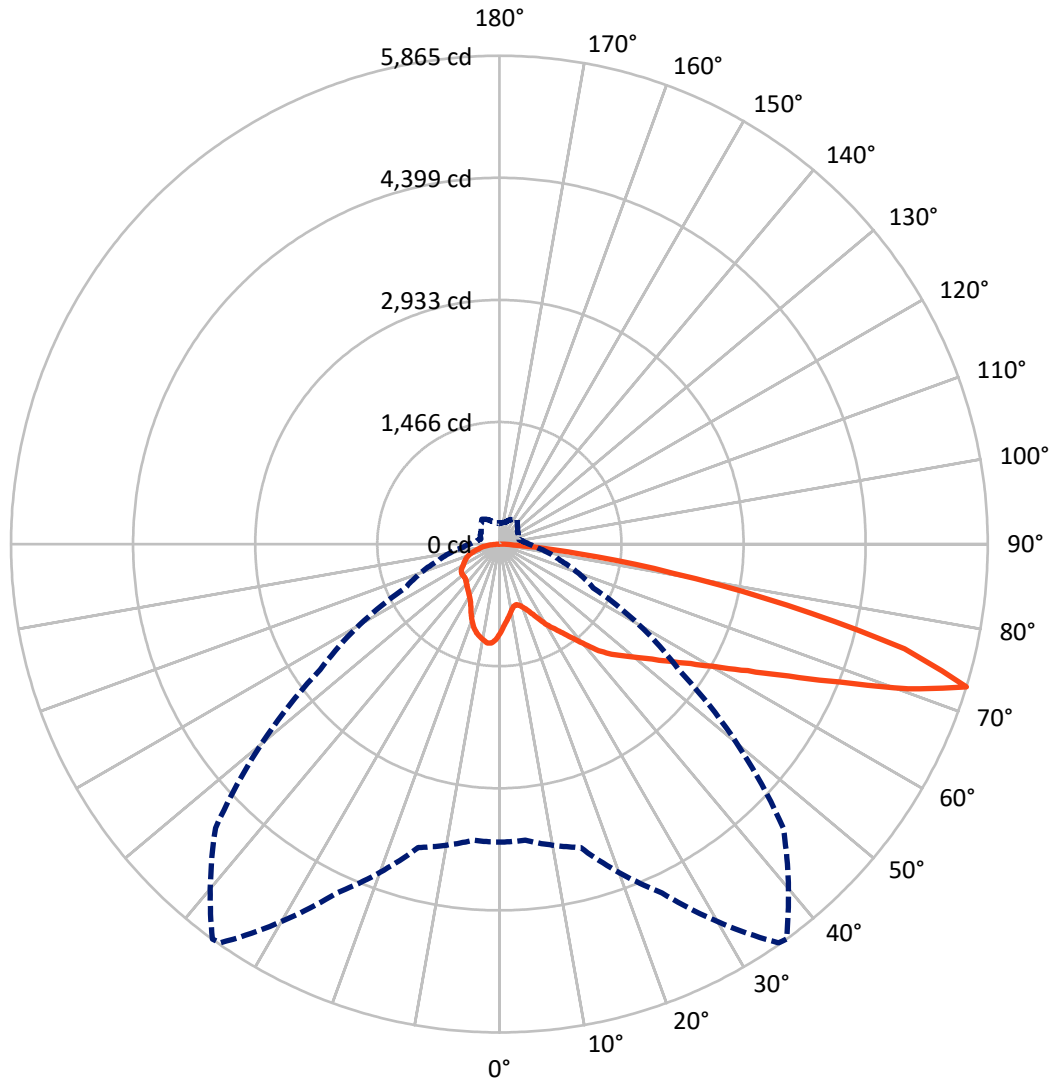
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1687.4	0.0	1687.4
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	5631.9	0.0	5631.9
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	7319.3	0.0	7319.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	1.4
10°-20°	282.5	3.9
20°-30°	467.9	6.4
30°-40°	700.7	9.6
40°-50°	1022.2	14.0
50°-60°	1454.9	19.9
60°-70°	1838.2	25.1
70°-80°	1309.9	17.9
80°-90°	143.0	2.0
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°	7319.3	100.0
0°-180°	7319.3	100.0

**Coefficient of Utilization**



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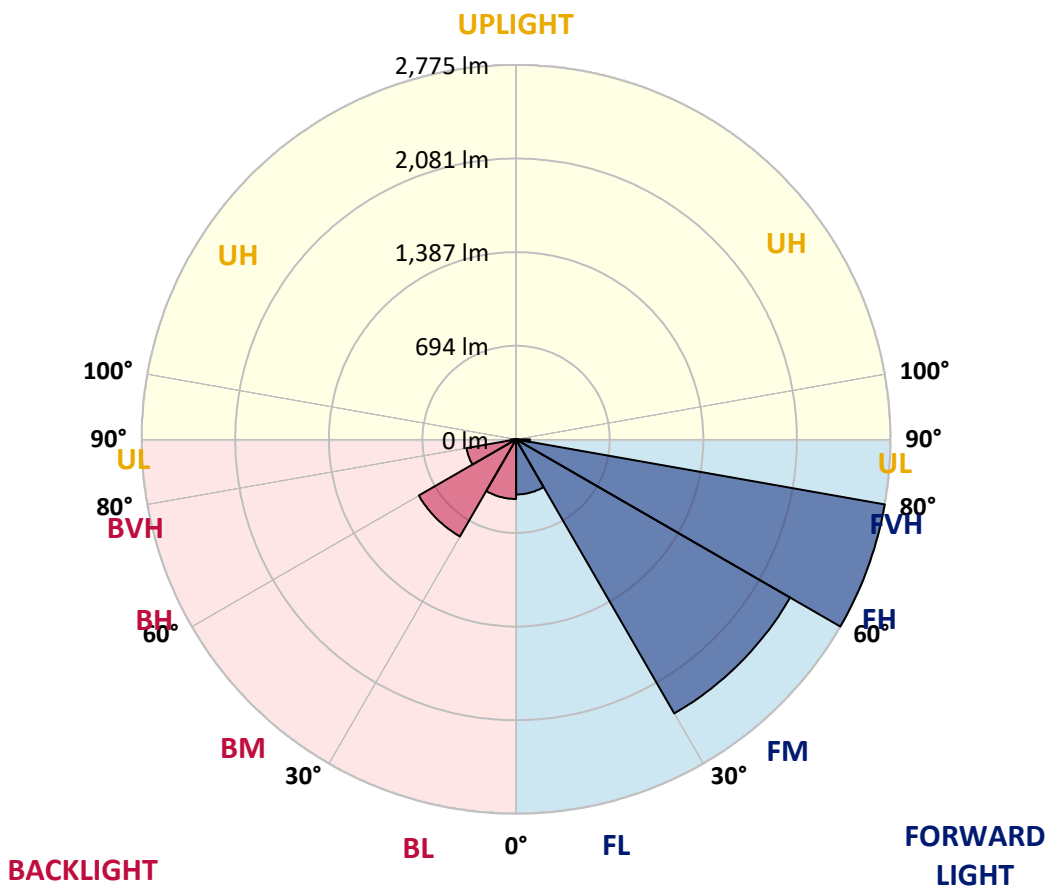
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.6	5.6			
FM (30°-60°)	2345.6	32.0			
FH (60°-80°)	2775.0	37.9			G2/5000
FVH (80°-90°)	102.6	1.4			G2/225
BL (0°-30°)	441.9	6.0	B1/500		
BM (30°-60°)	832.1	11.4	B1/1000		
BH (60°-80°)	373.0	5.1	B1/500		G1/500
BVH (80°-90°)	40.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	977.2	975.6	972.3	982.1	991.9	990.8	1004.4	1017.4	1031.6	1046.2	1065.8
5°	899.0	897.9	895.2	909.9	924.5	924.0	946.3	967.5	996.2	1027.8	1066.9
7.5°	820.8	818.1	821.9	840.3	861.0	863.2	893.6	928.3	970.2	1017.4	1072.8
10°	751.8	751.3	752.9	773.5	804.5	806.7	845.8	894.1	949.5	1012.5	1086.4
12.5°	733.9	732.8	728.4	738.8	762.1	765.4	808.3	867.5	935.4	1015.3	1104.9
15°	763.2	760.5	745.3	740.4	751.8	754.5	790.9	851.8	927.3	1020.2	1128.2
17.5°	813.7	812.1	783.3	763.2	770.8	773.0	800.1	849.0	925.1	1029.9	1157.0
20°	887.6	880.5	835.5	805.0	805.0	808.3	824.6	861.0	927.8	1041.9	1189.6
22.5°	985.4	971.3	907.7	866.4	855.6	859.9	867.0	890.9	939.2	1062.0	1230.4
25°	1095.1	1082.1	1006.6	948.4	933.2	934.9	928.9	933.2	964.2	1089.7	1280.9
27.5°	1211.9	1203.2	1122.8	1048.9	1025.0	1025.0	1003.9	993.5	999.0	1121.2	1337.4
30°	1316.2	1304.2	1236.3	1155.4	1123.9	1123.9	1083.7	1061.4	1048.4	1159.8	1412.9
32.5°	1371.1	1364.0	1318.9	1257.0	1218.4	1212.4	1177.7	1151.6	1121.2	1216.8	1515.0
35°	1442.8	1441.1	1414.0	1365.6	1316.7	1308.1	1284.2	1263.5	1210.8	1288.0	1650.8
37.5°	1532.9	1530.2	1525.9	1497.1	1438.4	1436.8	1415.6	1390.6	1322.2	1390.6	1815.4
40°	1634.0	1629.1	1623.7	1623.1	1587.8	1581.8	1580.2	1552.0	1456.3	1514.5	1987.1
42.5°	1773.0	1756.2	1705.1	1728.0	1754.0	1748.6	1769.2	1726.9	1623.7	1661.7	2149.5
45°	1944.2	1902.9	1801.8	1808.3	1874.1	1884.9	1956.6	1946.3	1807.8	1831.7	2320.6
47.5°	2046.8	2011.0	1917.0	1911.6	1993.6	2007.2	2163.1	2182.6	2006.1	2036.5	2531.9
50°	2131.0	2106.0	2028.9	2036.5	2123.4	2137.0	2367.9	2409.7	2192.9	2246.2	2777.4
52.5°	2232.6	2196.7	2137.0	2172.8	2279.3	2295.6	2595.5	2640.5	2361.3	2476.5	3031.7
55°	2289.6	2275.0	2276.1	2330.9	2464.5	2486.8	2833.9	2826.3	2515.6	2673.7	3222.9
57.5°	2421.1	2415.7	2465.6	2486.3	2680.7	2709.5	3072.4	3007.2	2655.8	2826.3	3314.7
60°	2653.0	2639.5	2682.9	2714.4	2948.0	2988.7	3338.6	3184.3	2750.8	2939.9	3283.7
62.5°	2979.0	2962.1	2963.8	3013.7	3306.0	3348.9	3634.6	3332.1	2780.2	2957.2	3087.6
65°	3384.2	3359.8	3332.1	3400.0	3781.3	3817.1	3956.7	3439.6	2710.1	2789.9	2678.0
67.5°	3811.7	3791.6	3759.0	3901.3	4396.8	4418.5	4318.0	3430.4	2487.9	2342.3	1878.4
70°	3836.7	3841.6	3995.9	4510.8	5200.2	5205.6	4659.7	3244.6	2014.8	1518.3	936.0
72.5°	3579.2	3571.1	3772.1	4622.2	5846.6	5865.1	4821.0	2628.6	1245.0	757.2	438.9
75°	2907.3	2921.4	3132.7	4044.2	5011.1	5027.4	3930.1	1549.8	591.6	370.5	280.8
77.5°	1251.6	1330.3	1747.0	2849.1	3589.0	3538.5	2025.6	628.0	315.6	264.0	215.1
80°	361.2	392.2	622.5	1354.8	2150.6	2112.5	801.8	235.2	220.0	198.3	154.3
82.5°	116.8	129.3	228.1	539.4	963.7	962.6	304.2	139.1	144.0	134.7	99.4
85°	32.6	37.5	70.1	163.5	298.2	292.2	88.0	65.7	76.6	77.7	49.4
87.5°	0.0	0.0	0.5	1.1	1.1	1.1	2.2	9.8	22.3	28.2	20.1
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°	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1077.7	1076.1	1098.4	1115.8	1132.1	1142.9	1146.2	1148.3	1152.7	1154.9	1152.7
5°	1085.3	1093.5	1130.4	1157.6	1179.3	1192.3	1192.9	1191.8	1195.1	1192.3	1190.7
7.5°	1101.6	1117.4	1164.1	1192.9	1207.0	1207.6	1194.5	1179.3	1171.7	1165.2	1163.0
10°	1123.4	1146.7	1197.8	1216.8	1212.4	1192.3	1163.6	1139.7	1126.1	1116.3	1114.1
12.5°	1153.2	1179.3	1227.7	1227.1	1200.0	1164.1	1130.4	1101.6	1082.1	1070.7	1066.9
15°	1181.5	1214.6	1249.4	1223.9	1180.9	1137.5	1094.0	1055.5	1029.4	1011.5	1008.2
17.5°	1216.2	1251.6	1265.1	1213.5	1157.0	1101.1	1043.0	992.4	957.1	936.0	934.3
20°	1256.4	1288.0	1272.7	1195.6	1126.1	1052.7	974.0	917.5	879.5	858.8	860.4
22.5°	1303.2	1326.0	1274.9	1171.2	1083.2	984.3	896.3	842.0	816.4	805.6	806.1
25°	1353.1	1367.8	1271.1	1138.0	1017.4	900.6	816.4	791.5	789.3	786.6	787.7
27.5°	1412.3	1409.1	1259.7	1091.3	928.9	803.4	760.5	767.0	775.7	774.6	775.7
30°	1491.7	1460.7	1245.0	1026.7	823.5	721.9	727.4	745.8	757.2	758.3	761.6
32.5°	1582.4	1517.7	1221.7	938.7	723.0	676.3	696.4	718.7	732.2	735.0	739.3
35°	1690.5	1582.9	1180.4	828.9	650.8	649.1	667.6	682.8	697.5	698.6	698.6
37.5°	1814.9	1648.1	1114.7	707.8	606.2	625.8	643.2	646.4	650.2	647.0	648.6
40°	1928.9	1711.1	1021.2	597.5	569.8	605.1	619.8	608.9	597.0	588.8	590.5
42.5°	2024.5	1754.0	897.4	520.4	532.9	586.7	598.1	575.8	552.4	537.2	539.4
45°	2132.1	1793.7	751.8	468.2	501.4	573.6	581.2	552.4	522.6	499.8	496.5
47.5°	2280.4	1874.6	622.5	431.9	479.1	566.6	579.1	540.0	500.8	466.6	462.8
50°	2463.5	1989.2	514.4	408.0	468.8	562.8	578.5	526.4	479.7	439.5	436.7
52.5°	2663.4	2101.1	434.6	389.5	458.5	551.4	575.8	511.2	457.4	413.9	410.7
55°	2796.5	2145.1	380.8	372.1	441.6	533.4	564.9	496.5	423.7	384.1	379.2
57.5°	2835.6	2088.6	343.3	356.3	419.9	508.4	544.3	465.5	403.1	371.6	367.8
60°	2768.2	1946.3	320.0	343.3	396.0	476.4	508.4	447.6	386.8	358.5	355.8
62.5°	2578.1	1726.9	302.0	329.7	371.6	442.7	485.6	425.9	368.8	346.6	342.8
65°	2195.7	1416.2	287.4	315.6	348.2	410.7	460.6	404.1	349.3	332.4	328.1
67.5°	1535.7	994.6	271.6	298.8	324.8	379.7	434.6	384.1	329.2	316.7	312.3
70°	750.7	527.5	252.6	279.2	299.9	348.2	408.5	359.6	302.6	295.5	289.5
72.5°	357.4	295.0	230.3	252.6	265.6	306.4	365.0	324.3	271.1	255.9	245.5
75°	239.6	209.7	201.0	221.1	224.3	256.9	312.9	279.8	239.0	221.6	212.9
77.5°	181.4	160.2	168.9	186.9	180.3	211.3	257.5	249.3	215.7	199.9	195.6
80°	127.7	116.8	134.2	145.0	140.1	179.8	232.0	213.5	177.6	160.2	157.0
82.5°	80.4	78.2	98.9	100.5	102.1	142.3	190.7	167.9	138.0	113.5	105.4
85°	40.2	44.5	59.2	59.2	58.7	73.3	108.6	94.5	74.4	59.2	57.6
87.5°	13.6	19.0	25.5	20.6	15.8	12.5	14.1	17.4	18.5	17.9	17.9
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)