

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: P633820

Luminaire Tested: GWS-SA2F-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16541.8 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 124.5
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

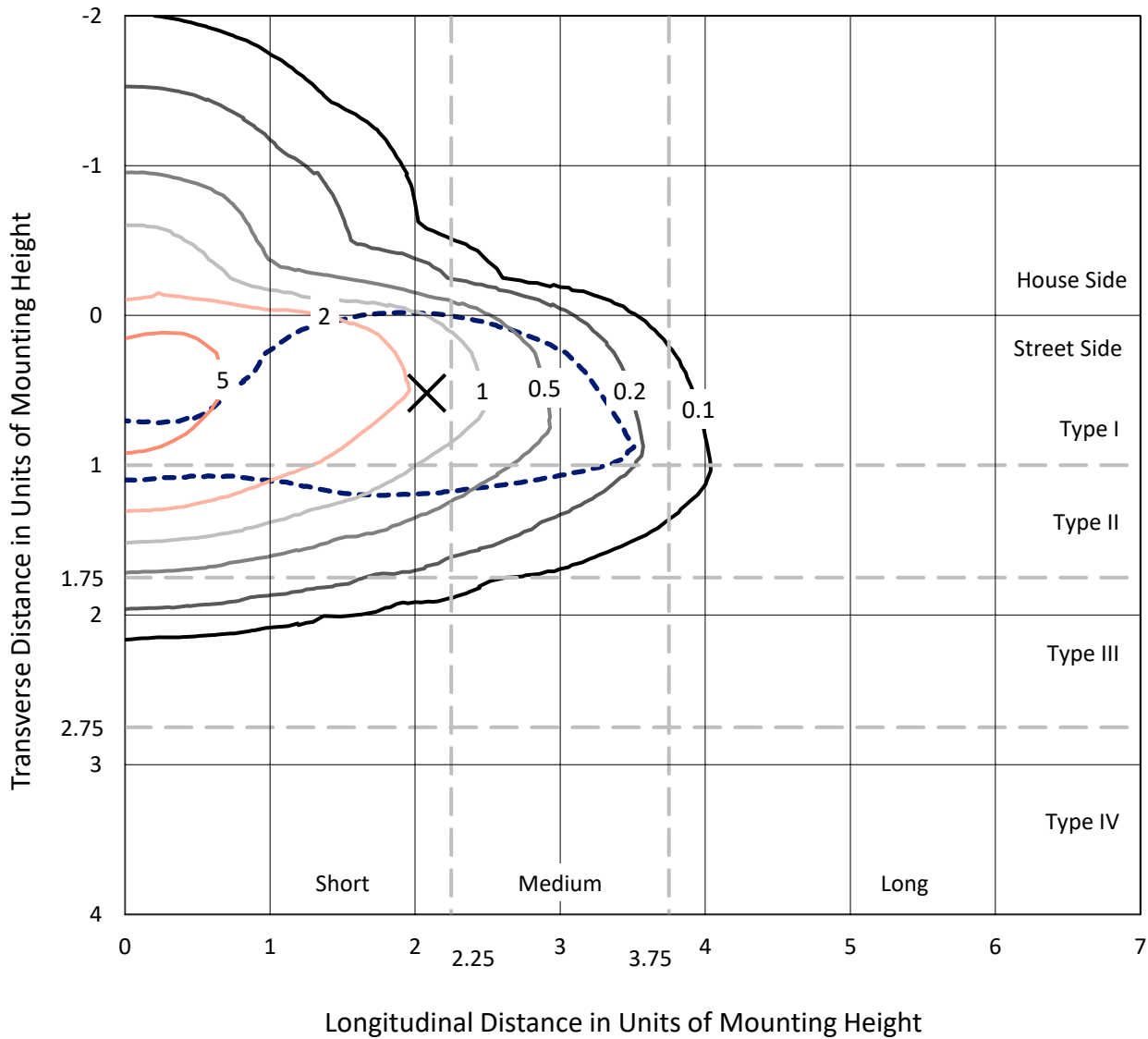


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Iso-Footcandle Lines of Horizontal Illumination

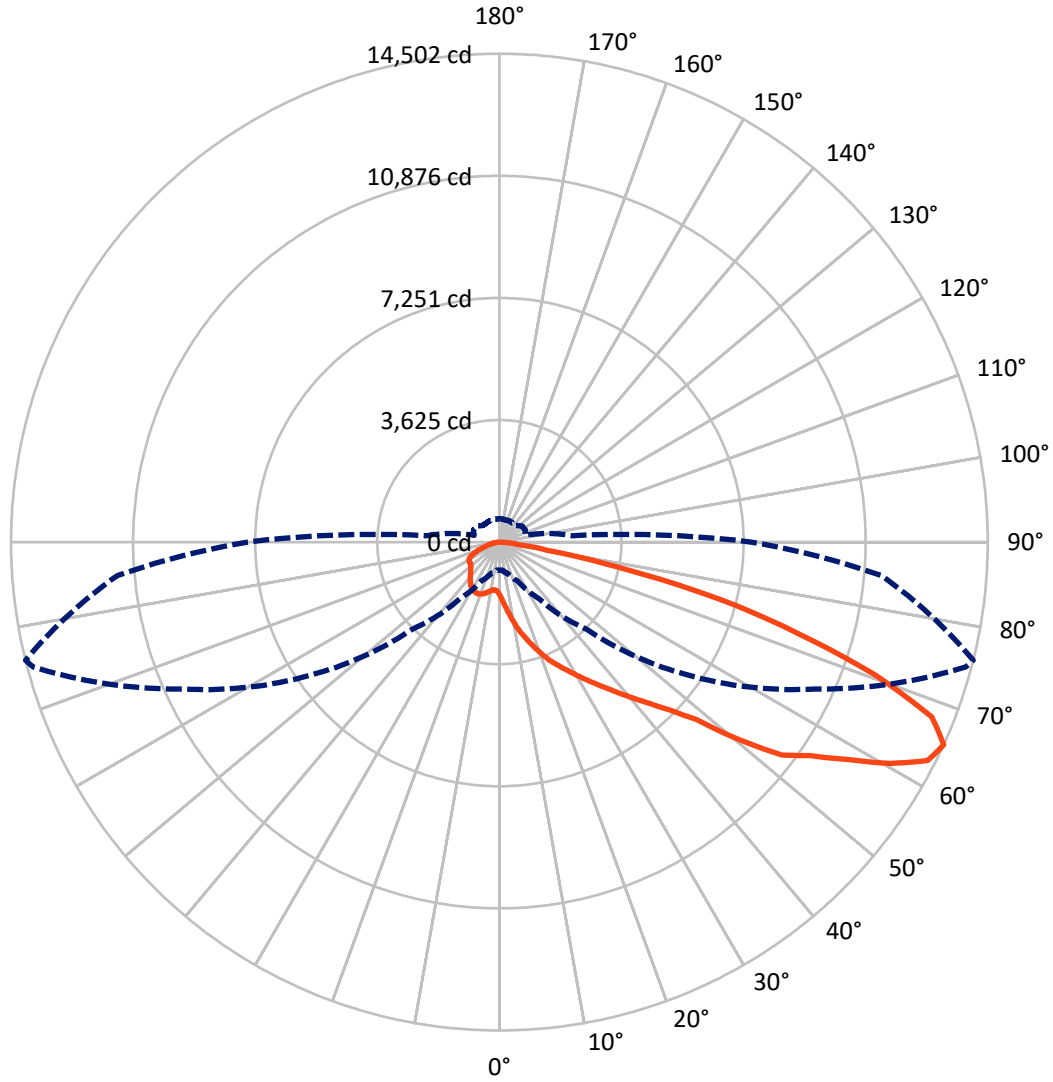
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.0	0.0	2765.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	13776.8	0.0	13776.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	16541.8	0.0	16541.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.1
10°-20°	708.8	4.3
20°-30°	1381.4	8.4
30°-40°	2310.4	14.0
40°-50°	3308.0	20.0
50°-60°	3916.2	23.7
60°-70°	3256.4	19.7
70°-80°	1332.6	8.1
80°-90°	141.9	0.9
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°	16541.8	100.0
0°-180°	16541.8	100.0

Coefficient of Utilization



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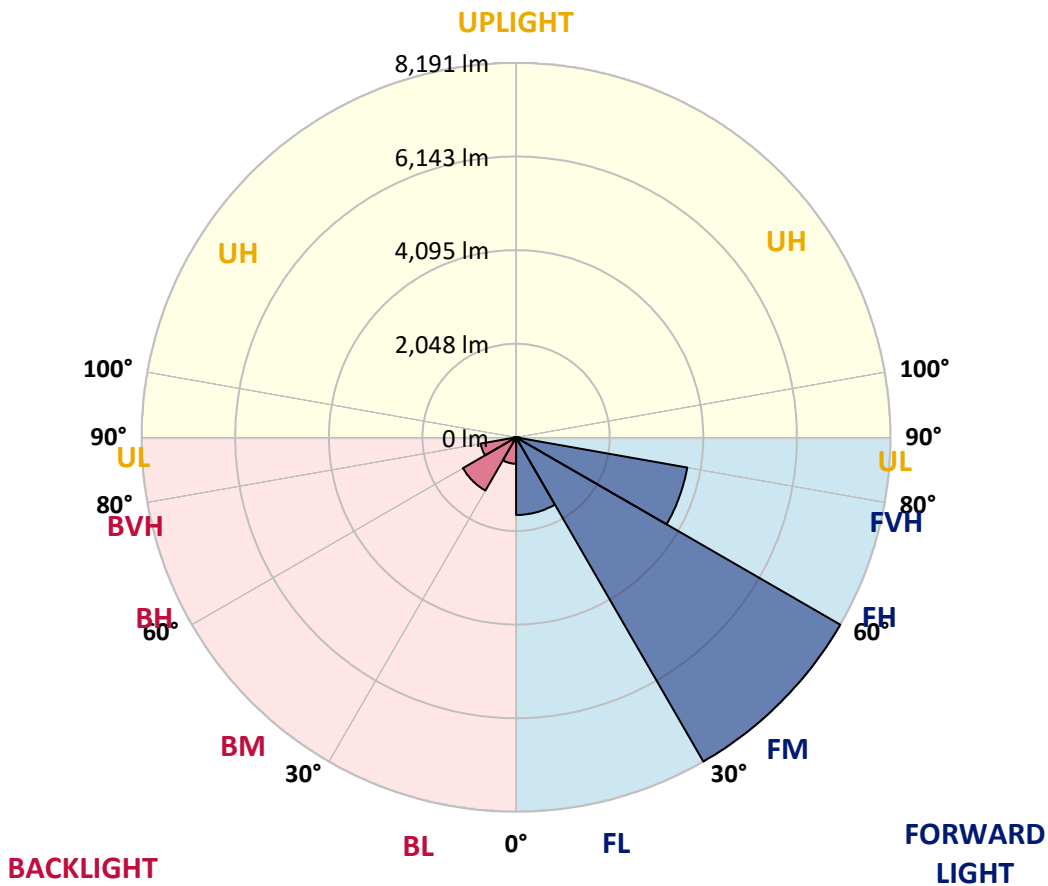
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.0	10.3			
FM (30°-60°)	8190.9	49.5			
FH (60°-80°)	3803.4	23.0			G2/5000
FVH (80°-90°)	84.6	0.5			G1/100
BL (0°-30°)	578.4	3.5	B2/1000		
BM (30°-60°)	1343.7	8.1	B2/2500		
BH (60°-80°)	785.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	57.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4
2.5°	2195.6	2203.7	2177.0	2167.7	2104.9	2020.0	1949.0	1842.1	1743.2	1728.1	1639.7
5°	2788.7	2753.8	2723.5	2703.8	2616.6	2520.0	2370.0	2168.8	1958.3	1932.8	1742.0
7.5°	3141.0	3135.2	3098.0	3086.4	3018.9	2922.4	2767.7	2517.7	2211.9	2170.0	1880.4
10°	3423.6	3420.1	3401.5	3412.0	3350.4	3256.2	3106.1	2848.0	2489.8	2447.9	2035.1
12.5°	3670.2	3676.0	3672.5	3710.9	3679.5	3606.2	3450.4	3166.6	2767.7	2722.4	2223.5
15°	3850.4	3855.1	3872.5	3956.2	3973.7	3958.6	3800.4	3479.4	3042.2	2977.1	2417.7
17.5°	3901.6	3910.9	3952.8	4087.6	4181.8	4244.6	4127.2	3798.1	3312.0	3241.0	2615.4
20°	3970.2	3980.7	4022.5	4163.2	4301.6	4444.7	4423.7	4121.4	3584.1	3526.0	2815.4
22.5°	4287.7	4279.5	4260.9	4328.4	4427.2	4605.1	4657.5	4431.9	3865.5	3809.7	3036.4
25°	4899.4	4884.2	4765.6	4704.0	4671.4	4779.6	4872.6	4714.5	4140.0	4056.2	3242.2
27.5°	5573.9	5565.7	5414.5	5268.0	5068.0	5021.5	5076.1	4961.0	4406.3	4321.4	3421.3
30°	6212.3	6187.9	6029.7	5846.0	5578.5	5378.5	5298.2	5202.9	4698.2	4609.8	3630.6
32.5°	6783.3	6751.9	6565.8	6362.3	6082.0	5846.0	5606.4	5459.9	5028.4	4926.1	3844.6
35°	7251.9	7220.5	7029.8	6813.5	6505.3	6330.9	6003.0	5739.0	5364.5	5261.0	4097.0
37.5°	7614.8	7585.7	7386.8	7174.0	6905.4	6767.0	6482.1	6053.0	5751.8	5643.6	4364.4
40°	7818.3	7797.3	7638.0	7469.4	7243.8	7124.0	6996.1	6449.5	6185.5	6077.4	4679.6
42.5°	7879.9	7866.0	7754.3	7667.1	7514.8	7424.1	7497.3	6915.9	6648.4	6554.2	5034.3
45°	7725.2	7725.2	7692.7	7736.9	7743.9	7742.7	7999.7	7442.7	7217.1	7113.6	5534.3
47.5°	7329.9	7355.4	7403.1	7620.6	7849.7	8041.6	8587.0	8145.1	7948.5	7863.6	6242.5
50°	6606.5	6676.3	6839.1	7263.6	7750.8	8239.3	9142.8	9183.5	9370.8	9220.8	7284.5
52.5°	5547.1	5536.6	5951.8	6556.5	7299.6	8247.4	9448.7	10099.9	10603.5	10500.0	8059.0
55°	4408.6	4391.2	4778.4	5612.2	6607.7	7935.7	9632.4	10519.7	11287.3	11194.2	8755.6
57.5°	3375.9	3353.8	3698.1	4450.5	5630.8	7274.0	9597.5	11019.8	12228.1	12180.4	9702.2
60°	2323.5	2296.8	2618.9	3277.1	4474.9	6262.3	9211.5	11276.8	13329.3	13345.6	10715.1
62.5°	1395.5	1380.4	1614.1	2124.6	3219.0	5008.7	8307.9	11121.0	14206.2	14279.4	11366.3
65°	842.0	831.5	968.7	1267.6	2042.1	3655.0	6914.7	10324.4	14332.9	14501.6	11381.5
67.5°	612.9	614.0	653.6	772.2	1190.8	2360.7	5188.9	8896.3	13672.4	13846.8	10663.9
70°	532.6	534.9	555.9	582.6	719.8	1351.3	3373.6	7022.8	11719.9	11854.8	8944.0
72.5°	473.3	473.3	487.3	501.2	562.9	823.3	1807.2	4908.7	9249.8	9285.9	6826.3
75°	416.3	412.8	419.8	426.8	488.4	575.6	879.2	3420.1	6832.1	6748.4	4412.1
77.5°	331.4	327.9	329.1	336.1	391.9	411.7	445.4	2136.3	3850.4	3634.1	1949.0
80°	236.1	233.7	246.5	264.0	289.6	252.4	279.1	1033.8	1526.9	1421.1	755.9
82.5°	140.7	145.4	165.1	179.1	200.0	158.2	180.3	345.4	540.8	526.8	307.0
85°	19.8	20.9	59.3	68.6	86.1	61.6	95.4	155.8	216.3	231.4	108.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	27.9	61.6	62.8	26.7
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°	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4	1566.4
2.5°	1594.4	1539.7	1461.8	1396.7	1342.0	1297.8	1260.6	1232.7	1224.6	1212.9	1212.9
5°	1652.5	1553.7	1414.1	1315.3	1258.3	1224.6	1201.3	1189.7	1183.8	1176.9	1173.4
7.5°	1732.7	1594.4	1406.0	1306.0	1261.8	1240.8	1225.7	1218.7	1214.1	1207.1	1207.1
10°	1843.2	1654.8	1431.5	1338.5	1303.6	1282.7	1265.3	1253.6	1243.2	1232.7	1230.4
12.5°	1963.0	1733.9	1478.1	1382.7	1345.5	1319.9	1295.5	1278.0	1265.3	1252.5	1249.0
15°	2095.6	1815.3	1528.1	1425.7	1379.2	1344.3	1315.3	1288.5	1271.1	1252.5	1250.1
17.5°	2225.8	1897.9	1569.9	1454.8	1395.5	1352.5	1310.6	1275.7	1253.6	1232.7	1226.9
20°	2381.7	1980.4	1599.0	1462.9	1392.0	1335.0	1285.0	1240.8	1216.4	1192.0	1188.5
22.5°	2524.7	2057.2	1613.0	1451.3	1365.3	1297.8	1239.7	1192.0	1165.2	1140.8	1136.2
25°	2663.1	2124.6	1607.1	1423.4	1324.6	1246.6	1186.2	1138.5	1112.9	1087.3	1080.3
27.5°	2796.8	2170.0	1583.9	1380.4	1273.4	1189.7	1131.5	1088.5	1066.4	1044.3	1035.0
30°	2928.2	2211.9	1547.8	1324.6	1208.3	1130.4	1082.7	1052.4	1030.3	1007.1	1000.1
32.5°	3060.8	2242.1	1493.2	1259.4	1142.0	1078.0	1048.9	1026.9	1003.6	980.3	973.4
35°	3194.5	2254.9	1426.9	1185.0	1086.2	1044.3	1033.8	1008.2	976.8	948.9	939.6
37.5°	3353.8	2266.5	1344.3	1111.7	1037.3	1028.0	1025.7	987.3	950.1	911.7	901.3
40°	3545.7	2281.6	1259.4	1045.5	997.8	1022.2	1012.9	960.6	886.1	848.9	837.3
42.5°	3780.6	2309.6	1171.1	985.0	968.7	1000.1	989.6	895.4	845.4	824.5	818.7
45°	4126.0	2411.9	1082.7	937.3	946.6	968.7	952.4	857.1	837.3	823.3	816.4
47.5°	4741.2	2568.9	1005.9	901.3	929.2	940.8	878.0	846.6	831.5	812.9	804.7
50°	5380.8	2637.5	944.3	879.2	909.4	915.2	837.3	832.6	822.2	802.4	794.3
52.5°	5813.4	2628.2	907.1	871.0	893.1	871.0	818.7	817.5	810.6	787.3	778.0
55°	6301.8	2644.5	890.8	873.3	886.1	796.6	795.4	798.9	795.4	769.9	765.2
57.5°	6961.2	2694.5	882.7	881.5	881.5	760.5	773.3	778.0	771.0	759.4	755.9
60°	7595.0	2698.0	867.5	890.8	878.0	738.5	747.8	752.4	744.3	741.9	740.8
62.5°	7833.4	2530.5	833.8	883.8	864.0	714.0	721.0	723.3	715.2	721.0	719.8
65°	7478.7	2174.7	778.0	850.1	821.0	691.9	687.3	693.1	679.1	694.3	695.4
67.5°	6640.2	1728.1	693.1	786.1	760.5	667.5	658.2	658.2	635.0	658.2	657.0
70°	5354.1	1221.1	568.7	683.8	694.3	638.4	633.8	607.0	569.8	604.7	601.2
72.5°	4058.6	876.8	447.7	540.8	597.7	597.7	598.9	553.5	510.5	526.8	512.8
75°	2571.2	617.5	358.2	414.0	468.7	524.5	551.2	467.5	429.1	422.1	415.2
77.5°	1158.3	405.9	279.1	317.5	332.6	414.0	503.5	402.4	350.0	334.9	330.3
80°	484.9	252.4	198.9	224.4	204.7	347.7	444.2	312.8	257.0	236.1	221.0
82.5°	212.8	150.0	126.8	120.9	127.9	258.2	331.4	208.2	160.5	217.5	219.8
85°	89.5	79.1	65.1	59.3	52.3	98.8	155.8	81.4	100.0	57.0	46.5
87.5°	20.9	23.3	17.4	11.6	7.0	1.2	0.0	0.0	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)