

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: P630086

Luminaire Tested: GWS-SA1C-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3347.6 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

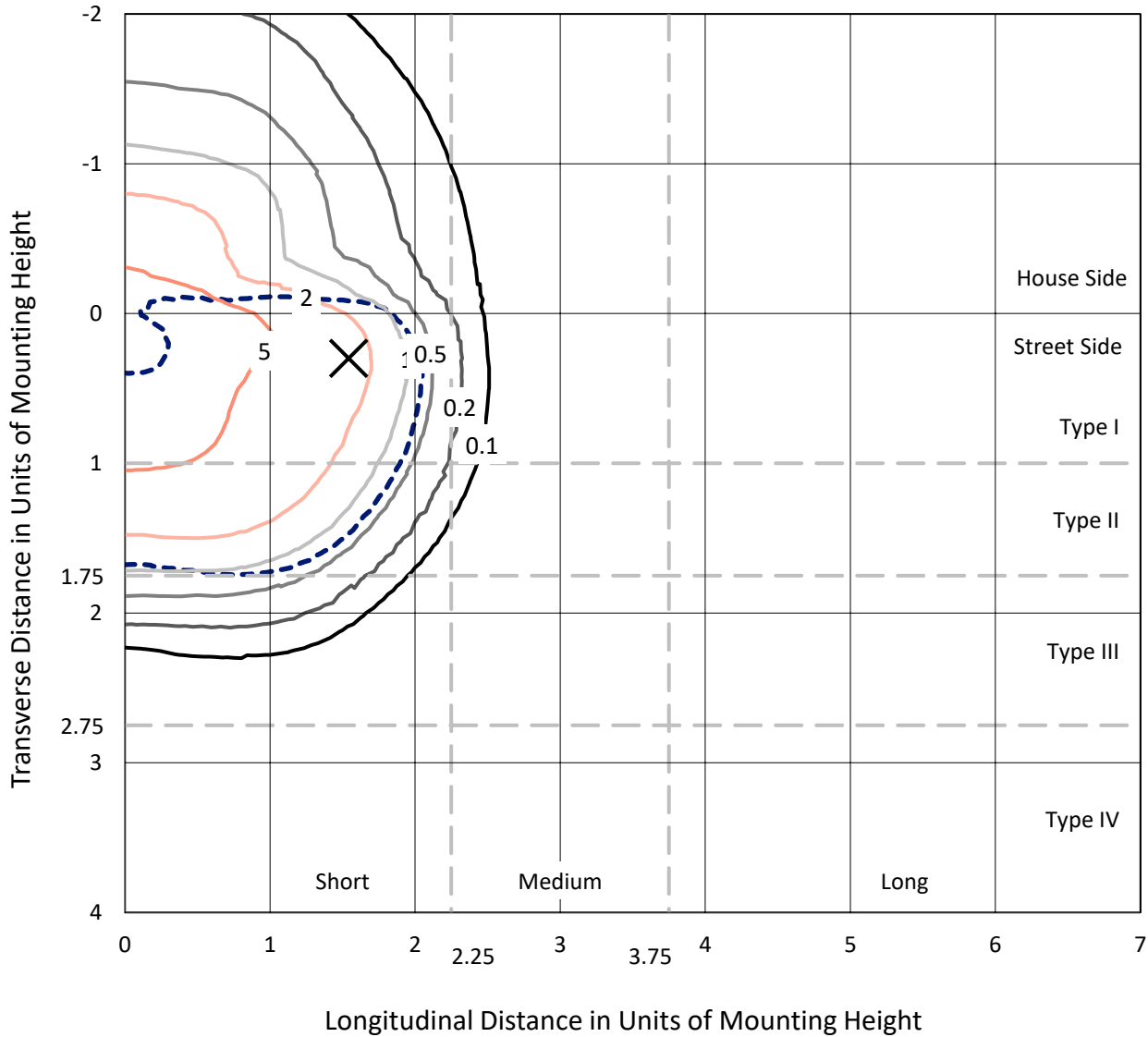
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

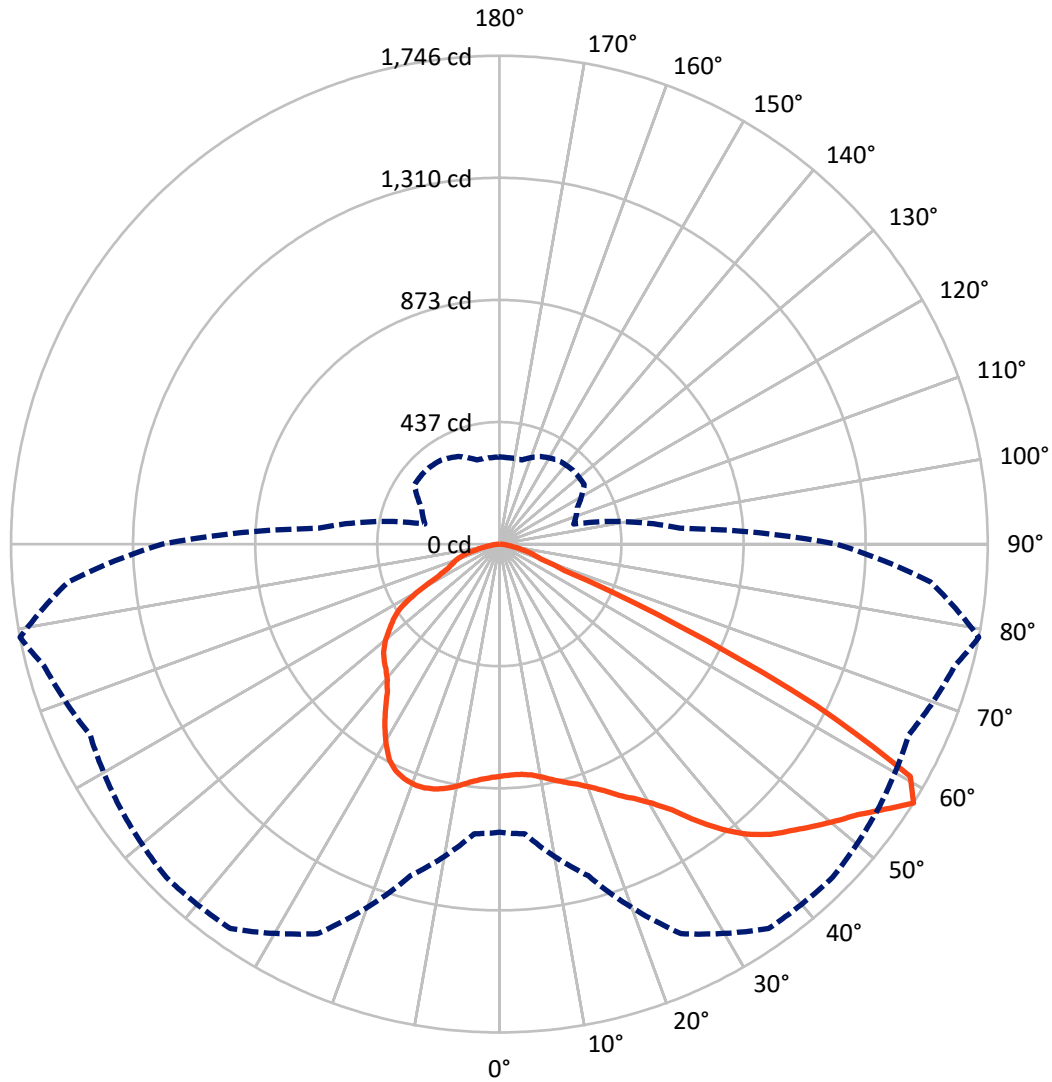
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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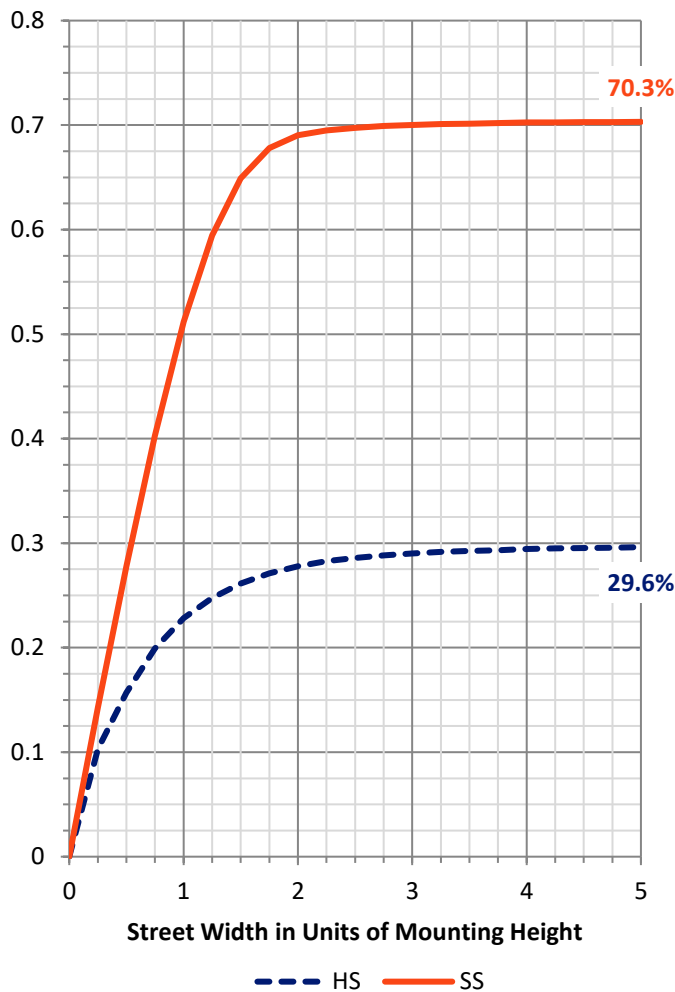
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.1	0.0	995.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	2352.5	0.0	2352.5
	% Fixture	70.3	0.0	70.3
Total	Lumens	3347.6	0.0	3347.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	2.3
10°-20°	213.5	6.4
20°-30°	361.9	10.8
30°-40°	553.9	16.5
40°-50°	738.6	22.1
50°-60°	853.1	25.5
60°-70°	443.3	13.2
70°-80°	94.2	2.8
80°-90°	12.2	0.4
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°	3347.6	100.0
0°-180°	3347.6	100.0

Coefficient of Utilization



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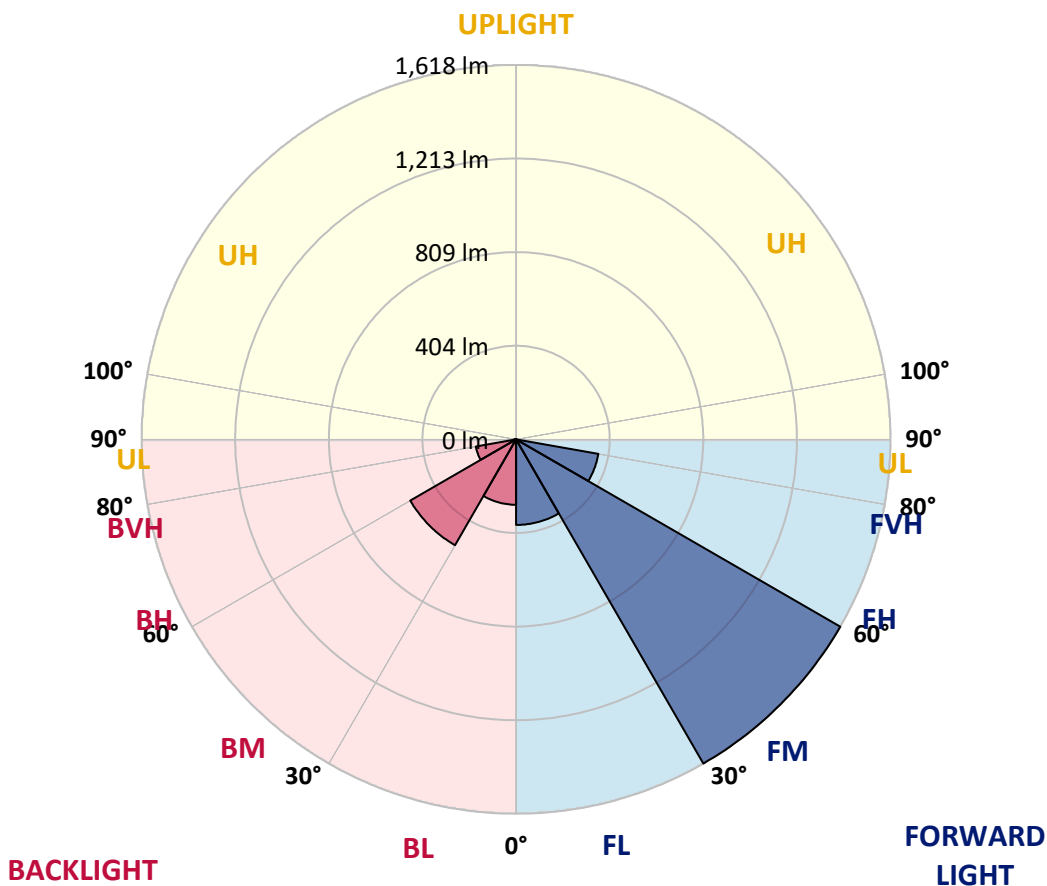
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.7	11.0			
FM (30°-60°)	1617.7	48.3			
FH (60°-80°)	361.0	10.8			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	282.6	8.4	B1/500		
BM (30°-60°)	528.0	15.8	B1/1000		
BH (60°-80°)	176.6	5.3	B1/500		G1/500
BVH (80°-90°)	7.9	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6
2.5°	791.8	790.2	790.7	792.9	801.1	807.2	813.5	819.2	824.7	826.3	827.7
5°	763.6	760.6	761.5	765.0	774.6	784.7	795.9	809.6	822.8	827.1	832.9
7.5°	743.7	743.1	744.5	750.0	760.1	769.7	784.2	803.6	826.3	833.7	843.8
10°	717.1	716.0	721.5	732.7	749.4	764.7	782.0	805.0	836.7	847.7	863.3
12.5°	696.0	695.5	701.2	716.8	738.2	762.6	786.4	812.1	850.7	865.7	884.9
15°	708.4	705.9	706.2	717.1	736.3	765.0	797.3	825.0	864.6	883.8	908.4
17.5°	744.2	739.8	736.6	738.5	749.4	779.3	814.0	842.2	880.8	903.2	933.3
20°	793.8	791.3	782.3	776.2	778.7	805.0	840.3	866.6	901.9	927.1	959.4
22.5°	860.3	854.2	841.9	832.3	825.0	845.5	878.1	900.8	931.2	957.4	991.1
25°	942.7	933.9	914.5	899.4	883.5	904.6	933.6	950.9	971.4	995.8	1027.8
27.5°	1026.7	1019.3	997.7	977.4	957.7	970.8	1005.3	1015.2	1013.0	1030.8	1058.2
30°	1116.2	1106.9	1086.4	1064.5	1039.0	1047.5	1078.4	1083.3	1060.1	1074.9	1093.5
32.5°	1210.6	1201.6	1183.8	1158.3	1129.6	1132.9	1141.4	1146.0	1123.9	1132.3	1146.6
35°	1306.7	1298.2	1280.1	1255.0	1233.9	1213.9	1192.6	1211.2	1198.3	1214.7	1213.6
37.5°	1394.5	1386.1	1374.8	1355.4	1319.3	1279.9	1230.6	1253.6	1273.6	1294.4	1290.8
40°	1453.9	1448.2	1450.9	1447.9	1401.4	1323.4	1249.2	1274.4	1328.9	1364.4	1362.5
42.5°	1505.1	1499.4	1515.3	1526.8	1472.0	1363.6	1258.2	1282.3	1364.2	1419.7	1417.0
45°	1527.8	1526.2	1552.5	1588.9	1536.6	1406.3	1281.5	1298.8	1391.0	1462.2	1451.8
47.5°	1500.7	1506.5	1558.2	1619.8	1590.3	1457.0	1329.1	1333.5	1426.0	1508.1	1478.9
50°	1446.8	1459.4	1529.2	1620.6	1629.4	1514.2	1395.1	1384.1	1473.1	1557.1	1493.1
52.5°	1368.3	1381.4	1495.3	1614.3	1651.8	1580.4	1483.0	1467.4	1532.5	1606.1	1495.5
55°	1187.9	1205.7	1417.5	1600.1	1673.7	1640.6	1582.0	1550.3	1609.1	1673.5	1519.9
57.5°	1030.5	1039.8	1228.1	1536.9	1678.1	1685.0	1652.7	1614.9	1685.2	1746.3	1547.3
60°	756.3	758.4	927.9	1271.7	1543.7	1659.2	1646.9	1590.8	1649.1	1688.0	1421.9
62.5°	427.3	427.5	562.7	848.8	1153.1	1352.4	1360.1	1310.5	1261.5	1273.0	989.7
65°	160.4	175.4	257.0	417.1	664.8	798.4	830.2	841.7	760.1	709.5	530.7
67.5°	107.3	110.9	150.0	214.6	295.9	341.6	382.1	383.2	280.3	249.9	209.1
70°	81.8	85.4	118.0	153.6	150.0	138.5	149.7	145.6	150.5	154.6	159.0
72.5°	61.0	64.6	91.4	108.4	90.1	88.7	100.5	111.7	122.1	126.5	133.3
75°	40.5	43.2	61.6	58.0	49.8	58.8	73.4	84.6	90.6	95.8	101.0
77.5°	25.7	27.6	32.8	26.5	27.6	34.5	42.7	52.8	58.6	63.8	66.5
80°	11.8	11.5	11.2	12.6	15.6	20.3	25.7	31.8	36.1	38.3	40.0
82.5°	4.7	5.2	5.7	6.8	8.5	10.9	14.5	18.6	22.2	22.7	24.1
85°	1.9	2.2	2.5	3.0	3.8	4.9	6.0	8.5	10.7	11.5	12.3
87.5°	0.0	0.0	0.0	0.0	0.3	0.5	0.8	1.4	2.5	2.7	3.0
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°	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6
2.5°	835.1	831.5	837.6	841.7	845.5	841.4	840.0	836.5	835.9	835.9	837.8
5°	842.8	840.3	846.6	849.0	848.8	839.7	834.3	827.1	823.6	823.6	824.1
7.5°	856.4	855.1	858.6	854.8	846.0	827.7	809.6	794.6	784.5	779.3	780.9
10°	879.2	877.5	874.5	860.3	835.1	797.0	760.1	732.7	716.3	707.0	707.5
12.5°	901.3	898.6	887.9	856.4	804.7	744.2	695.8	665.1	647.0	636.1	633.6
15°	925.7	918.6	895.6	836.7	755.2	679.6	629.0	595.9	576.4	569.9	569.6
17.5°	948.9	936.4	894.8	801.7	695.8	612.0	561.1	540.6	537.3	540.3	541.1
20°	972.5	952.2	885.7	753.2	625.2	544.7	518.4	526.9	539.2	547.4	549.3
22.5°	996.8	965.4	865.2	690.8	550.7	499.2	510.2	528.8	544.1	555.1	556.2
25°	1024.2	977.7	834.5	614.5	491.0	486.7	508.3	528.0	544.4	557.0	559.2
27.5°	1039.8	978.0	791.6	535.9	463.7	481.7	503.6	522.2	538.7	552.3	554.8
30°	1055.1	970.6	723.4	472.1	455.7	476.0	495.7	512.9	528.5	541.9	545.0
32.5°	1076.8	963.7	644.9	435.5	451.1	470.5	486.7	502.0	514.0	520.0	521.7
35°	1103.6	955.0	561.4	419.6	448.1	466.1	480.4	488.6	473.0	469.7	473.2
37.5°	1141.1	946.8	478.2	412.8	446.1	464.5	477.1	456.0	436.8	429.2	431.9
40°	1181.6	942.1	421.8	407.3	447.0	466.1	463.4	432.2	404.5	388.4	387.8
42.5°	1216.1	935.0	385.7	403.7	449.2	472.4	444.8	411.1	370.1	360.5	360.7
45°	1239.4	916.9	366.5	399.9	451.1	473.8	436.0	382.1	352.8	346.8	346.5
47.5°	1248.9	884.1	354.2	393.9	450.8	462.6	418.2	370.1	340.8	339.1	340.2
50°	1242.6	830.2	341.6	382.1	444.2	450.8	397.7	359.4	332.6	341.6	348.2
52.5°	1219.4	760.4	326.5	365.9	432.5	437.4	387.3	352.8	326.5	338.6	343.8
55°	1213.4	703.7	307.4	344.9	414.9	413.6	376.4	349.5	322.4	317.8	318.6
57.5°	1205.4	648.4	275.6	307.1	370.6	372.8	365.9	345.7	311.8	310.4	311.8
60°	1047.2	497.1	245.8	265.0	304.4	316.1	354.2	338.6	294.5	288.8	288.5
62.5°	684.0	301.1	218.7	231.0	248.0	261.7	323.0	318.1	275.6	272.1	274.5
65°	367.9	214.6	199.0	206.4	215.7	226.1	267.7	283.3	249.1	236.5	236.8
67.5°	188.0	182.6	184.2	189.4	196.5	201.7	216.0	229.6	212.4	201.7	201.4
70°	160.9	165.3	167.8	170.8	175.4	174.6	176.0	178.5	177.1	171.9	171.6
72.5°	137.1	144.0	144.5	145.1	146.7	142.9	140.4	136.3	136.6	137.4	137.7
75°	104.3	110.9	112.5	111.7	113.3	108.4	105.1	101.0	96.1	95.3	95.8
77.5°	67.9	73.1	75.5	75.0	75.8	72.0	70.3	66.0	60.2	58.0	58.0
80°	41.1	44.1	46.0	46.5	47.4	44.6	41.9	38.0	35.6	33.1	33.1
82.5°	24.9	26.8	28.2	28.2	29.0	26.0	23.8	21.1	20.0	17.8	17.8
85°	12.6	14.0	14.5	14.2	13.7	11.2	10.4	9.0	8.5	7.4	7.4
87.5°	3.0	3.8	3.8	2.7	2.7	1.4	0.8	0.3	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)