

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: P629584

Luminaire Tested: GWS-SA1B-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.5 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

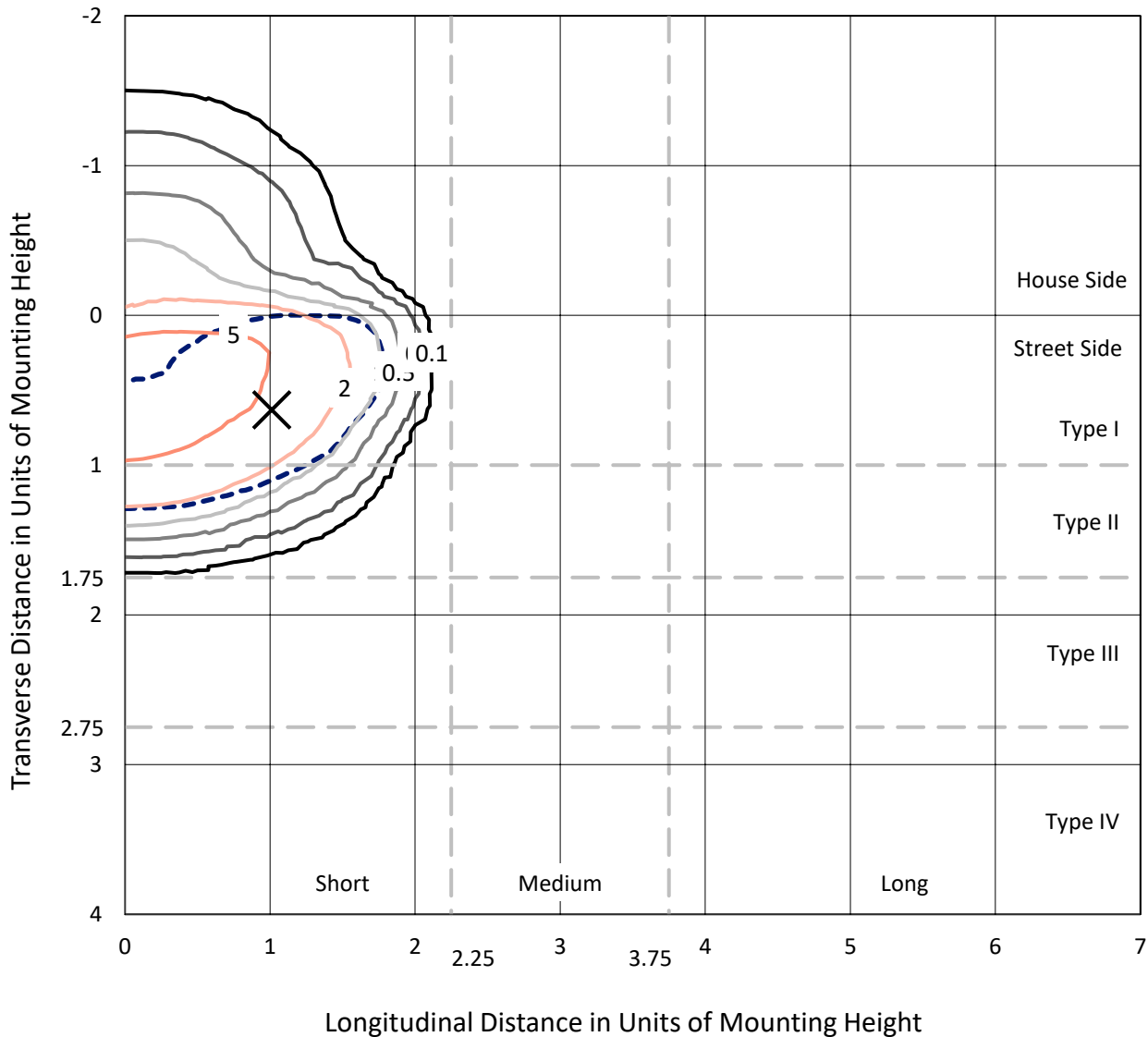
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

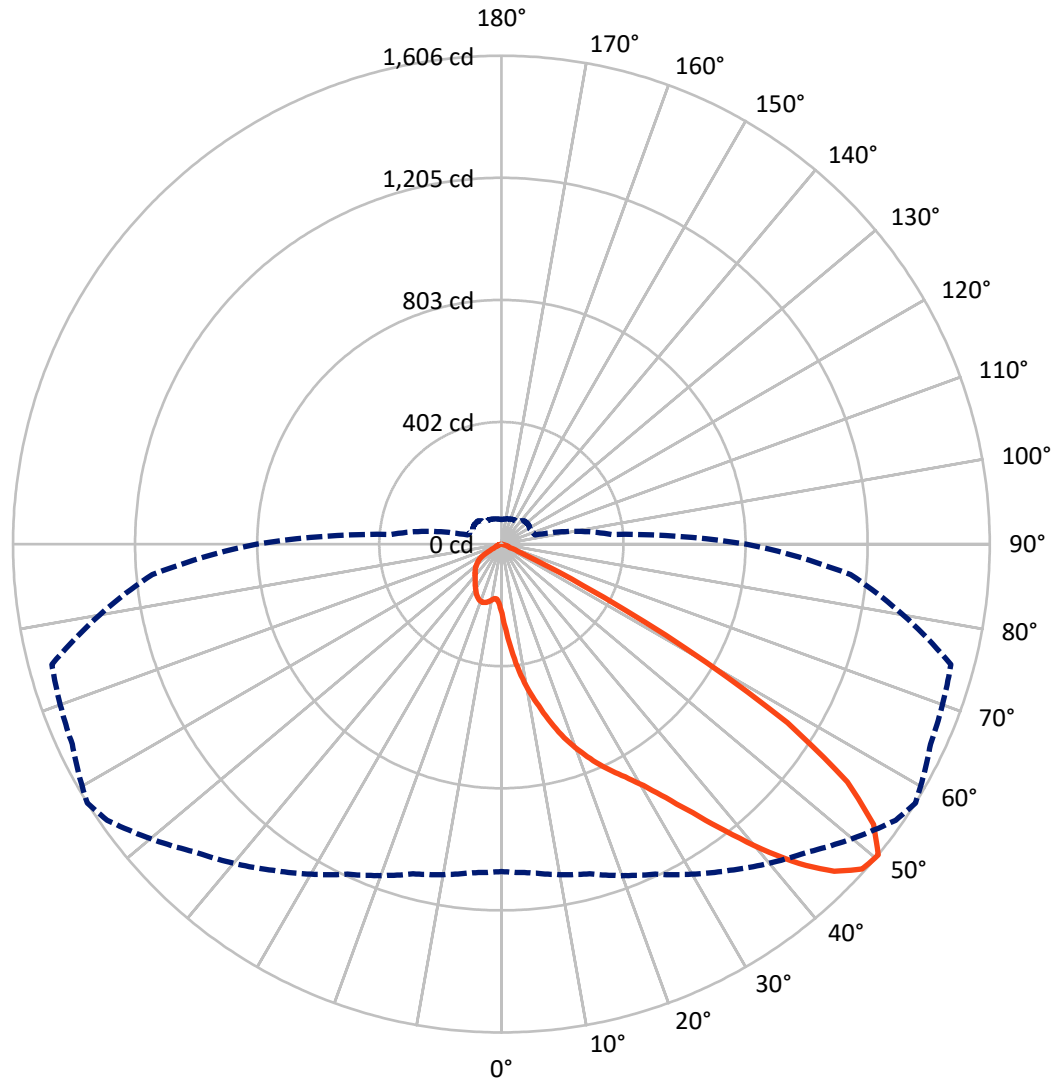
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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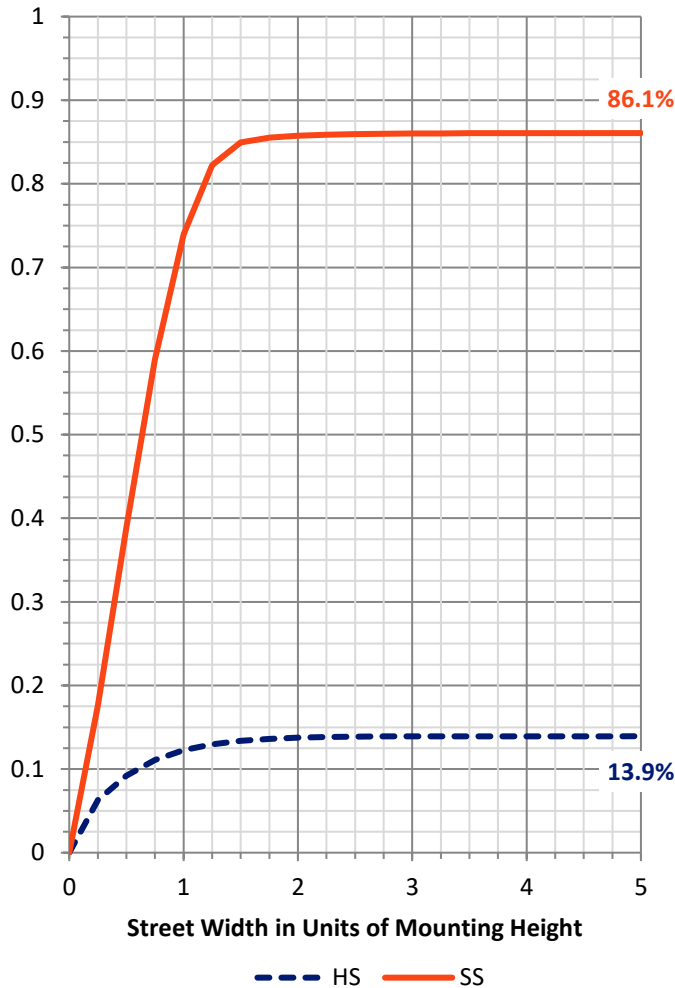
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	267.3	0.0	267.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	1641.2	0.0	1641.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	1908.5	0.0	1908.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	1.5
10°-20°	111.8	5.9
20°-30°	226.2	11.9
30°-40°	400.2	21.0
40°-50°	583.5	30.6
50°-60°	467.7	24.5
60°-70°	84.3	4.4
70°-80°	6.6	0.3
80°-90°	0.0	0.0
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°	1908.5	100.0
0°-180°	1908.5	100.0

Coefficient of Utilization



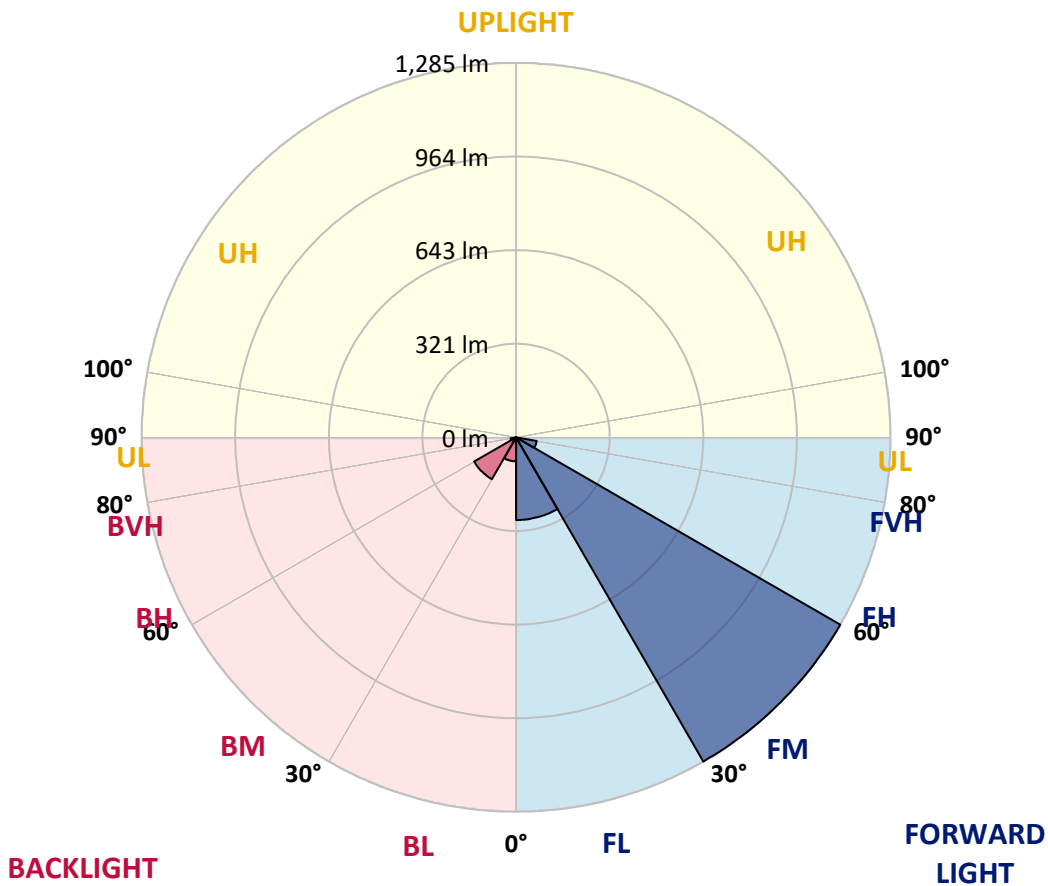
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.0	14.9			
FM (30°-60°)	1285.3	67.3			
FH (60°-80°)	71.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	82.3	4.3	B0/110		
BM (30°-60°)	166.0	8.7	B0/220		
BH (60°-80°)	19.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
2.5°	337.4	332.1	329.0	326.5	315.7	298.6	287.4	281.4	271.6	255.1	240.8
5°	440.2	436.3	429.2	424.3	410.4	386.1	361.0	351.0	328.8	291.4	258.0
7.5°	508.4	505.5	502.9	496.3	483.3	461.2	433.5	423.1	388.8	335.7	280.8
10°	560.8	558.6	555.5	555.3	545.1	525.3	498.2	487.4	450.2	383.9	307.8
12.5°	607.0	605.1	604.5	610.2	603.7	589.0	559.6	546.1	506.8	433.1	337.6
15°	638.6	638.2	640.8	652.1	655.7	649.0	624.3	609.8	564.5	482.5	370.4
17.5°	653.1	654.3	659.4	678.8	695.1	700.8	681.9	669.6	621.9	532.5	405.5
20°	677.8	677.4	680.4	698.8	718.8	739.2	733.5	723.1	679.8	585.3	444.5
22.5°	747.4	741.5	734.9	737.8	744.9	768.8	779.4	774.1	739.6	639.6	484.7
25°	854.3	848.2	827.2	806.8	793.3	804.1	818.6	821.3	799.0	695.3	526.8
27.5°	967.8	962.3	938.6	908.0	869.4	850.6	861.5	866.8	857.4	761.7	571.4
30°	1074.1	1066.8	1040.9	1002.9	958.2	929.4	917.2	920.8	926.4	840.2	623.9
32.5°	1166.4	1160.9	1129.8	1089.8	1046.8	1016.8	988.2	994.3	1007.8	936.4	691.0
35°	1244.5	1241.7	1208.8	1169.0	1123.5	1108.2	1083.7	1084.9	1098.4	1052.5	772.9
37.5°	1312.5	1307.6	1277.8	1240.9	1204.7	1202.3	1195.6	1196.2	1203.1	1187.8	867.0
40°	1355.4	1350.9	1329.6	1306.8	1281.1	1281.5	1316.4	1319.0	1311.1	1320.7	966.4
42.5°	1371.5	1368.2	1356.8	1357.0	1354.3	1366.4	1431.9	1436.8	1408.2	1424.9	1051.3
45°	1343.5	1342.1	1342.9	1372.3	1404.1	1441.3	1526.4	1535.0	1494.5	1494.1	1117.6
47.5°	1253.3	1250.5	1274.3	1324.3	1398.0	1470.3	1583.5	1596.8	1555.0	1533.7	1159.2
50°	1076.6	1084.7	1122.5	1197.6	1309.6	1430.5	1582.9	1606.0	1557.2	1530.3	1152.3
52.5°	779.8	778.2	860.8	964.1	1100.4	1303.1	1498.8	1532.5	1502.7	1496.2	1136.8
55°	424.3	439.2	494.9	631.7	801.9	1062.1	1306.8	1380.3	1414.7	1483.7	1164.7
57.5°	155.9	162.5	197.4	294.1	424.5	660.4	998.2	1109.0	1215.6	1449.0	1160.0
60°	62.9	64.1	78.0	108.2	178.4	336.1	598.8	697.2	797.6	1109.2	890.2
62.5°	45.7	47.3	52.9	63.3	90.2	146.9	258.2	300.2	328.2	549.4	438.6
65°	36.9	38.2	42.7	47.3	59.6	79.0	83.3	80.2	79.8	142.0	100.6
67.5°	30.6	31.8	35.1	38.4	42.9	39.4	28.6	30.0	24.5	24.3	19.8
70°	22.4	23.9	27.1	30.6	25.7	10.6	16.5	24.5	18.6	15.5	15.1
72.5°	16.9	18.0	21.0	20.0	7.6	4.1	11.0	17.8	14.3	11.4	11.2
75°	12.7	13.3	10.6	3.3	0.8	1.0	4.1	7.3	8.0	6.5	6.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.8	1.0	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
2.5°	232.7	224.1	211.8	201.6	193.9	186.3	180.6	174.9	174.7	171.8	171.2
5°	242.5	226.9	204.5	188.4	178.6	172.7	168.6	166.5	165.5	164.5	164.1
7.5°	256.5	234.3	203.3	186.1	178.0	174.1	171.2	170.0	169.4	168.6	168.4
10°	273.9	244.9	207.8	190.4	183.3	179.6	176.5	174.7	173.7	172.3	171.8
12.5°	294.7	258.0	214.9	197.6	190.0	185.1	181.0	178.4	176.9	175.1	174.7
15°	317.2	272.1	222.9	204.1	195.1	188.8	183.7	179.6	176.9	174.7	174.1
17.5°	340.4	286.3	230.0	208.6	197.6	190.0	182.7	177.1	173.9	171.0	170.2
20°	366.5	301.0	234.7	209.4	196.7	186.7	178.2	171.2	168.0	164.1	163.3
22.5°	393.9	314.7	236.7	207.6	192.3	180.6	171.4	164.3	159.6	155.5	154.3
25°	420.4	327.0	235.7	202.5	185.5	172.0	162.7	155.3	150.2	146.1	145.1
27.5°	448.6	337.2	232.0	194.9	176.3	162.7	153.7	147.4	142.7	138.2	137.1
30°	480.2	346.5	226.1	185.7	165.5	153.1	146.1	141.8	136.7	132.0	130.6
32.5°	518.4	354.9	217.6	174.7	155.9	144.7	140.8	137.6	131.6	126.7	125.7
35°	562.1	361.8	206.7	163.3	146.5	139.4	138.6	134.3	126.5	120.8	119.6
37.5°	612.7	368.6	193.9	152.0	139.6	136.9	137.1	129.8	120.4	113.5	112.7
40°	667.2	375.3	179.6	142.2	133.3	135.5	133.7	123.3	108.0	101.2	100.4
42.5°	723.9	382.7	165.1	133.1	128.0	130.0	127.4	110.2	99.2	95.7	95.3
45°	775.1	391.4	149.4	123.9	122.7	122.0	117.6	99.8	95.1	92.7	92.5
47.5°	812.1	390.0	132.7	115.1	116.9	114.9	101.2	94.9	91.0	87.8	86.9
50°	805.3	365.1	115.3	105.3	109.6	107.8	91.0	89.2	85.7	82.2	81.0
52.5°	788.2	331.2	100.2	94.9	101.6	97.4	84.1	82.2	79.2	74.7	73.3
55°	797.4	299.4	88.4	86.5	93.5	80.6	76.3	73.5	70.2	65.3	64.7
57.5°	767.8	244.3	71.0	72.2	82.7	68.8	66.9	62.5	56.9	53.7	53.3
60°	531.4	131.2	44.5	45.9	59.8	57.8	60.0	55.9	49.2	46.1	45.5
62.5°	244.1	52.7	24.3	23.3	31.4	39.2	51.4	51.0	42.7	37.8	37.3
65°	59.2	24.1	17.3	16.3	17.8	23.5	33.5	40.2	34.5	28.8	28.2
67.5°	19.2	19.6	15.9	14.9	15.7	17.6	20.0	22.2	22.0	20.2	19.8
70°	15.3	17.8	14.7	13.5	13.5	14.1	13.5	10.8	9.4	10.2	10.6
72.5°	11.4	13.5	11.6	10.4	10.0	9.8	8.4	6.1	4.3	3.9	3.7
75°	6.7	7.6	7.1	6.1	5.7	5.1	4.1	2.7	1.4	1.0	0.6
77.5°	1.2	1.4	1.6	1.2	1.0	0.8	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)