

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: P629587

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629587
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-SA1B-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2903.1 lumens
Efficiency: N/A
Efficacy: 116.1 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): 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

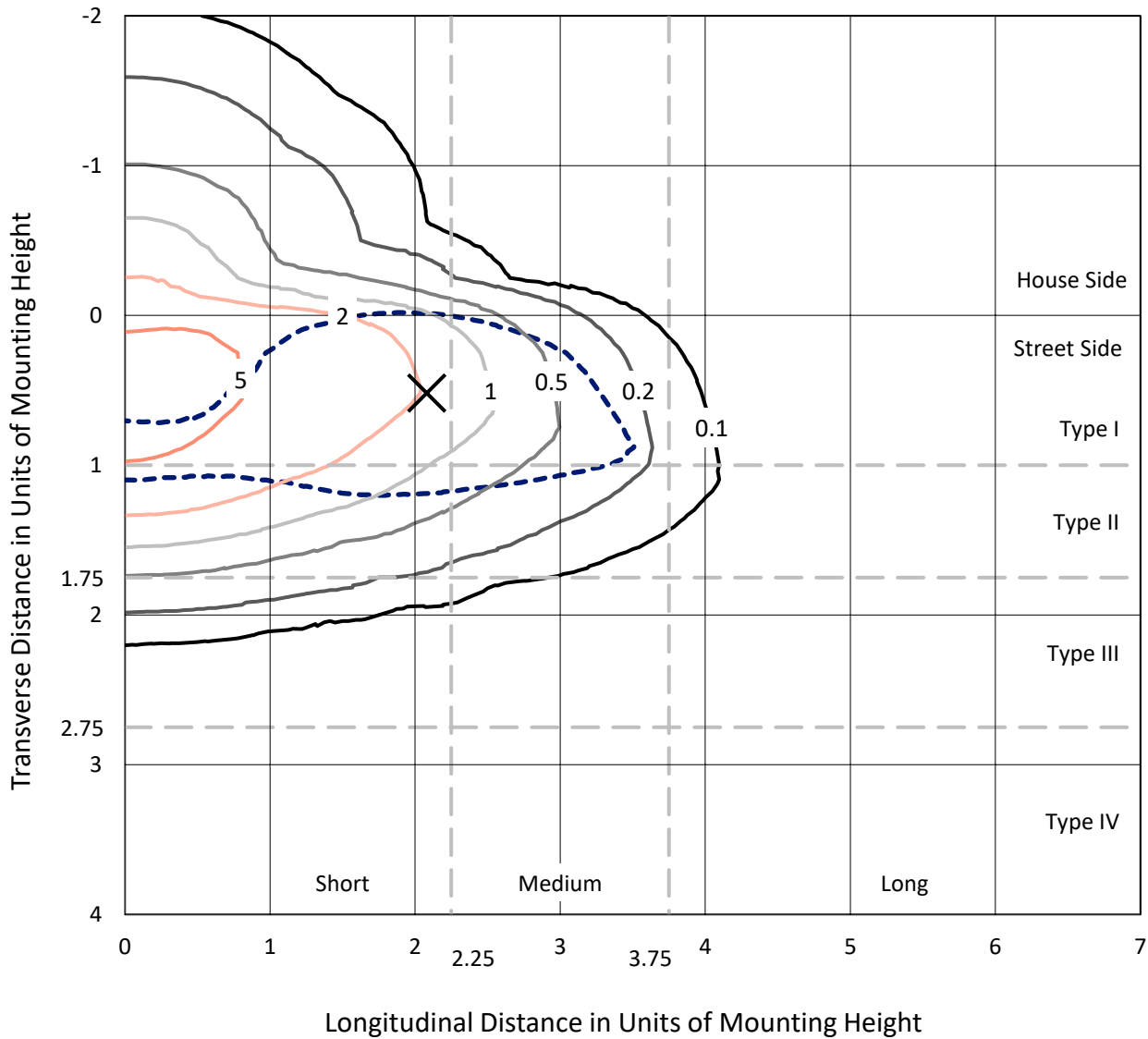


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Iso-Footcandle Lines of Horizontal Illumination

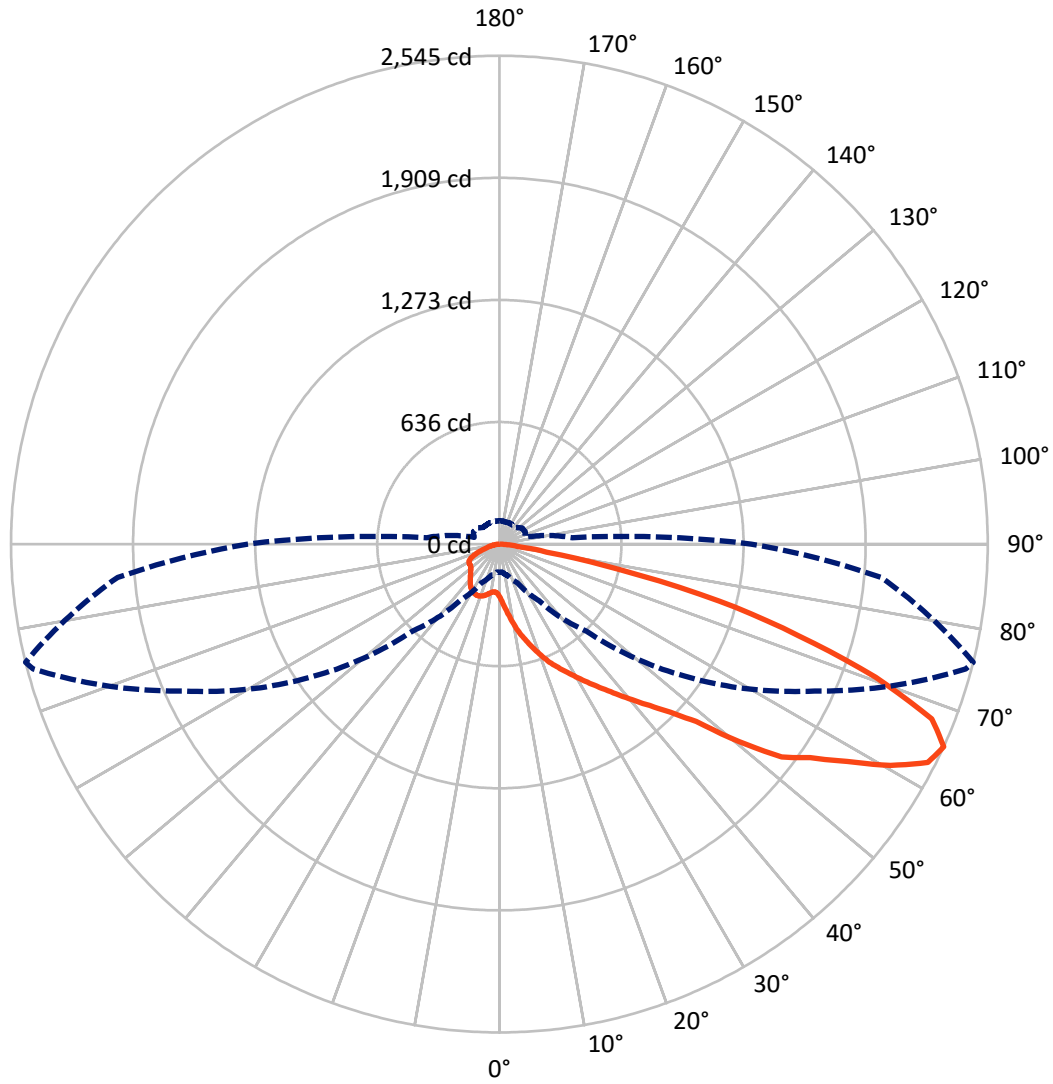
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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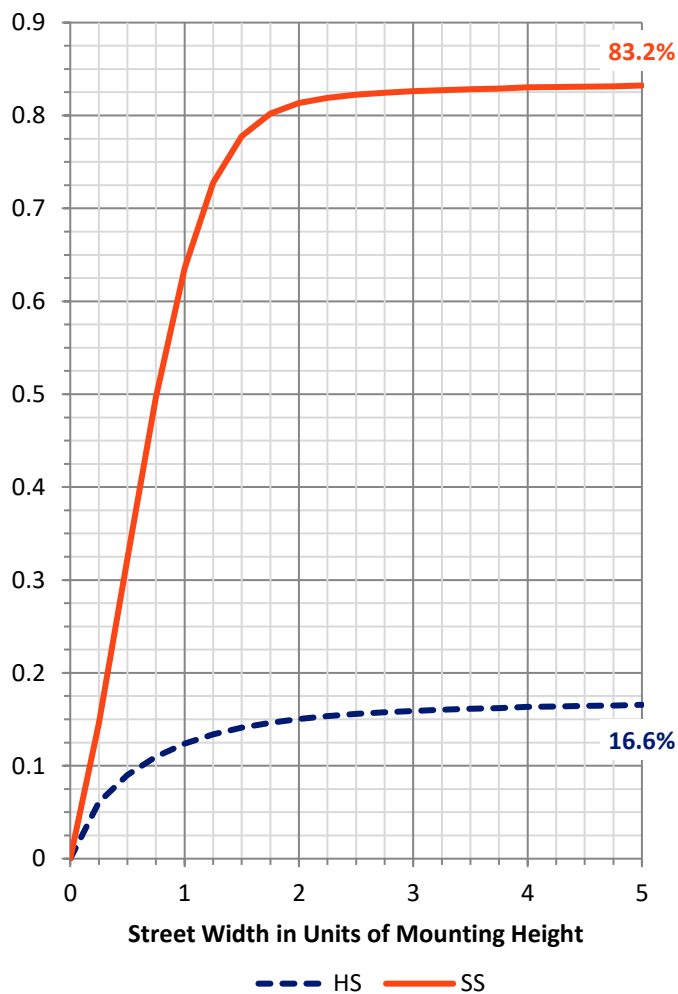
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.2	0.0	485.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	2417.8	0.0	2417.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	2903.1	0.0	2903.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	1.1
10°-20°	124.4	4.3
20°-30°	242.4	8.4
30°-40°	405.5	14.0
40°-50°	580.6	20.0
50°-60°	687.3	23.7
60°-70°	571.5	19.7
70°-80°	233.9	8.1
80°-90°	24.9	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°	2903.1	100.0
0°-180°	2903.1	100.0

Coefficient of Utilization



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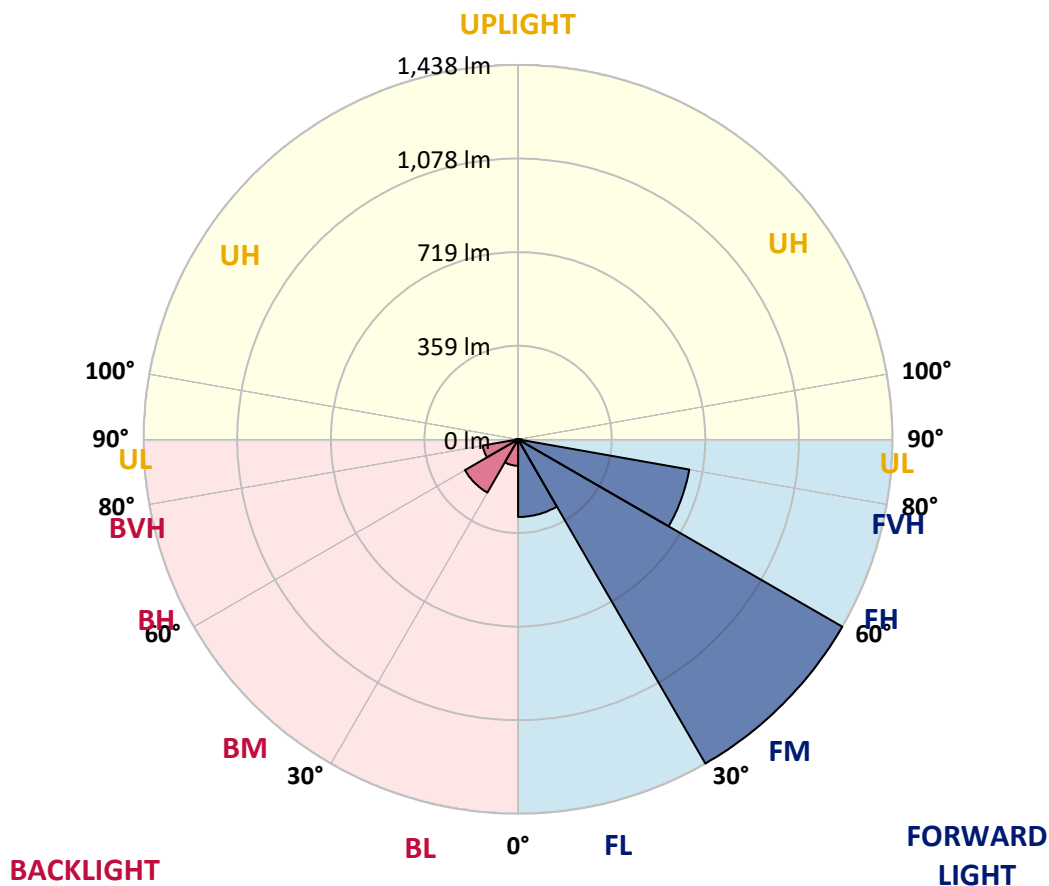
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.0	10.3			
FM (30°-60°)	1437.5	49.5			
FH (60°-80°)	667.5	23.0			G1/1800
FVH (80°-90°)	14.8	0.5			G1/100
BL (0°-30°)	101.5	3.5	B0/110		
BM (30°-60°)	235.8	8.1	B1/1000		
BH (60°-80°)	137.9	4.7	B1/500		G1/500
BVH (80°-90°)	10.0	0.3			G1/100
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°	76°	85°
0°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	385.3	386.8	382.1	380.4	369.4	354.5	342.1	323.3	305.9	303.3	287.8
5°	489.4	483.3	478.0	474.5	459.2	442.3	415.9	380.6	343.7	339.2	305.7
7.5°	551.3	550.2	543.7	541.7	529.8	512.9	485.7	441.9	388.2	380.8	330.0
10°	600.8	600.2	597.0	598.8	588.0	571.5	545.1	499.8	437.0	429.6	357.2
12.5°	644.1	645.1	644.5	651.3	645.7	632.9	605.5	555.7	485.7	477.8	390.2
15°	675.8	676.6	679.6	694.3	697.4	694.7	667.0	610.6	533.9	522.5	424.3
17.5°	684.7	686.4	693.7	717.4	733.9	744.9	724.3	666.6	581.3	568.8	459.0
20°	696.8	698.6	706.0	730.7	754.9	780.0	776.4	723.3	629.0	618.8	494.1
22.5°	752.5	751.1	747.8	759.6	777.0	808.2	817.4	777.8	678.4	668.6	532.9
25°	859.8	857.2	836.4	825.6	819.8	838.8	855.1	827.4	726.6	711.9	569.0
27.5°	978.2	976.8	950.3	924.5	889.4	881.3	890.9	870.7	773.3	758.4	600.4
30°	1090.3	1086.0	1058.2	1026.0	979.0	943.9	929.8	913.1	824.5	809.0	637.2
32.5°	1190.5	1185.0	1152.3	1116.6	1067.4	1026.0	983.9	958.2	882.5	864.5	674.7
35°	1272.7	1267.2	1233.7	1195.8	1141.7	1111.1	1053.5	1007.2	941.5	923.3	719.0
37.5°	1336.4	1331.3	1296.4	1259.0	1211.9	1187.6	1137.6	1062.3	1009.4	990.5	766.0
40°	1372.1	1368.4	1340.5	1310.9	1271.3	1250.3	1227.8	1131.9	1085.6	1066.6	821.3
42.5°	1382.9	1380.5	1360.9	1345.6	1318.8	1302.9	1315.8	1213.7	1166.8	1150.3	883.5
45°	1355.8	1355.8	1350.1	1357.8	1359.1	1358.8	1404.0	1306.2	1266.6	1248.4	971.3
47.5°	1286.4	1290.9	1299.3	1337.4	1377.6	1411.3	1507.0	1429.5	1395.0	1380.1	1095.6
50°	1159.5	1171.7	1200.3	1274.8	1360.3	1446.0	1604.6	1611.7	1644.6	1618.3	1278.4
52.5°	973.5	971.7	1044.5	1150.7	1281.1	1447.4	1658.3	1772.5	1860.9	1842.8	1414.4
55°	773.7	770.7	838.6	985.0	1159.7	1392.7	1690.5	1846.2	1980.9	1964.6	1536.6
57.5°	592.5	588.6	649.0	781.1	988.2	1276.6	1684.4	1934.0	2146.0	2137.7	1702.7
60°	407.8	403.1	459.6	575.1	785.3	1099.0	1616.6	1979.1	2339.3	2342.2	1880.5
62.5°	244.9	242.3	283.3	372.9	564.9	879.0	1458.0	1951.7	2493.2	2506.1	1994.8
65°	147.8	145.9	170.0	222.5	358.4	641.5	1213.5	1811.9	2515.4	2545.0	1997.5
67.5°	107.6	107.8	114.7	135.5	209.0	414.3	910.7	1561.3	2399.5	2430.1	1871.5
70°	93.5	93.9	97.6	102.3	126.3	237.2	592.1	1232.5	2056.8	2080.5	1569.7
72.5°	83.1	83.1	85.5	88.0	98.8	144.5	317.2	861.5	1623.4	1629.7	1198.0
75°	73.1	72.5	73.7	74.9	85.7	101.0	154.3	600.2	1199.0	1184.3	774.3
77.5°	58.2	57.6	57.8	59.0	68.8	72.2	78.2	374.9	675.8	637.8	342.1
80°	41.4	41.0	43.3	46.3	50.8	44.3	49.0	181.4	268.0	249.4	132.7
82.5°	24.7	25.5	29.0	31.4	35.1	27.8	31.6	60.6	94.9	92.5	53.9
85°	3.5	3.7	10.4	12.0	15.1	10.8	16.7	27.3	38.0	40.6	19.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.9	10.8	11.0	4.7
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°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	279.8	270.2	256.5	245.1	235.5	227.8	221.2	216.3	214.9	212.9	212.9
5°	290.0	272.7	248.2	230.8	220.8	214.9	210.8	208.8	207.8	206.5	205.9
7.5°	304.1	279.8	246.7	229.2	221.4	217.8	215.1	213.9	213.1	211.8	211.8
10°	323.5	290.4	251.2	234.9	228.8	225.1	222.1	220.0	218.2	216.3	215.9
12.5°	344.5	304.3	259.4	242.7	236.1	231.6	227.4	224.3	222.1	219.8	219.2
15°	367.8	318.6	268.2	250.2	242.1	235.9	230.8	226.1	223.1	219.8	219.4
17.5°	390.6	333.1	275.5	255.3	244.9	237.4	230.0	223.9	220.0	216.3	215.3
20°	418.0	347.6	280.6	256.7	244.3	234.3	225.5	217.8	213.5	209.2	208.6
22.5°	443.1	361.0	283.1	254.7	239.6	227.8	217.6	209.2	204.5	200.2	199.4
25°	467.4	372.9	282.1	249.8	232.5	218.8	208.2	199.8	195.3	190.8	189.6
27.5°	490.8	380.8	278.0	242.3	223.5	208.8	198.6	191.0	187.2	183.3	181.6
30°	513.9	388.2	271.6	232.5	212.1	198.4	190.0	184.7	180.8	176.7	175.5
32.5°	537.2	393.5	262.1	221.0	200.4	189.2	184.1	180.2	176.1	172.1	170.8
35°	560.6	395.7	250.4	208.0	190.6	183.3	181.4	176.9	171.4	166.5	164.9
37.5°	588.6	397.8	235.9	195.1	182.1	180.4	180.0	173.3	166.7	160.0	158.2
40°	622.3	400.4	221.0	183.5	175.1	179.4	177.8	168.6	155.5	149.0	146.9
42.5°	663.5	405.3	205.5	172.9	170.0	175.5	173.7	157.2	148.4	144.7	143.7
45°	724.1	423.3	190.0	164.5	166.1	170.0	167.2	150.4	146.9	144.5	143.3
47.5°	832.1	450.8	176.5	158.2	163.1	165.1	154.1	148.6	145.9	142.7	141.2
50°	944.3	462.9	165.7	154.3	159.6	160.6	146.9	146.1	144.3	140.8	139.4
52.5°	1020.3	461.2	159.2	152.9	156.7	152.9	143.7	143.5	142.3	138.2	136.5
55°	1106.0	464.1	156.3	153.3	155.5	139.8	139.6	140.2	139.6	135.1	134.3
57.5°	1221.7	472.9	154.9	154.7	154.7	133.5	135.7	136.5	135.3	133.3	132.7
60°	1332.9	473.5	152.3	156.3	154.1	129.6	131.2	132.0	130.6	130.2	130.0
62.5°	1374.8	444.1	146.3	155.1	151.6	125.3	126.5	126.9	125.5	126.5	126.3
65°	1312.5	381.7	136.5	149.2	144.1	121.4	120.6	121.6	119.2	121.8	122.0
67.5°	1165.4	303.3	121.6	138.0	133.5	117.1	115.5	115.5	111.4	115.5	115.3
70°	939.6	214.3	99.8	120.0	121.8	112.0	111.2	106.5	100.0	106.1	105.5
72.5°	712.3	153.9	78.6	94.9	104.9	104.9	105.1	97.1	89.6	92.5	90.0
75°	451.2	108.4	62.9	72.7	82.2	92.0	96.7	82.0	75.3	74.1	72.9
77.5°	203.3	71.2	49.0	55.7	58.4	72.7	88.4	70.6	61.4	58.8	58.0
80°	85.1	44.3	34.9	39.4	35.9	61.0	78.0	54.9	45.1	41.4	38.8
82.5°	37.3	26.3	22.2	21.2	22.5	45.3	58.2	36.5	28.2	38.2	38.6
85°	15.7	13.9	11.4	10.4	9.2	17.3	27.3	14.3	17.6	10.0	8.2
87.5°	3.7	4.1	3.1	2.0	1.2	0.2	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)