

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: P629308

Luminaire Tested: GWS-SA1B-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.1 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

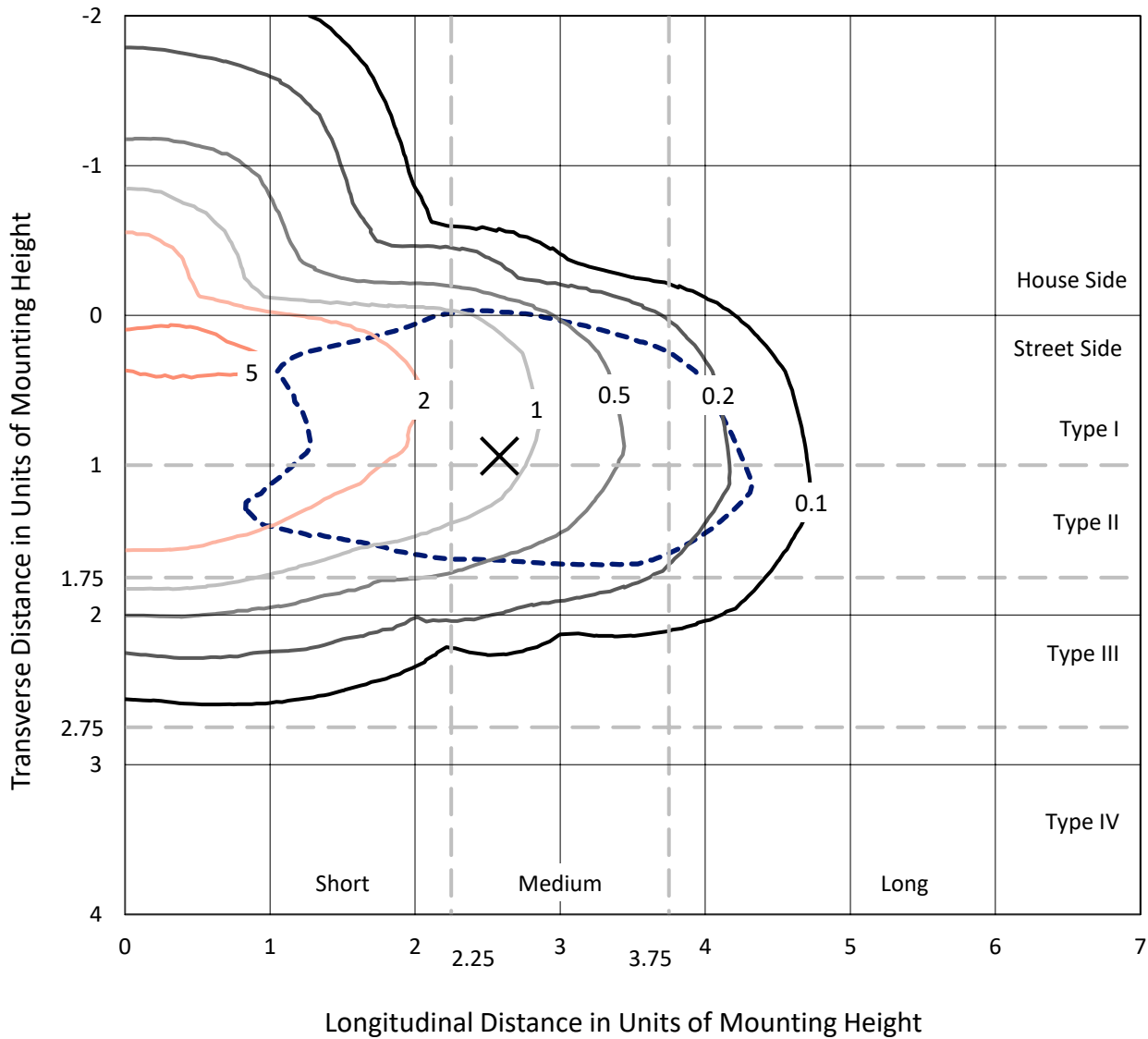
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

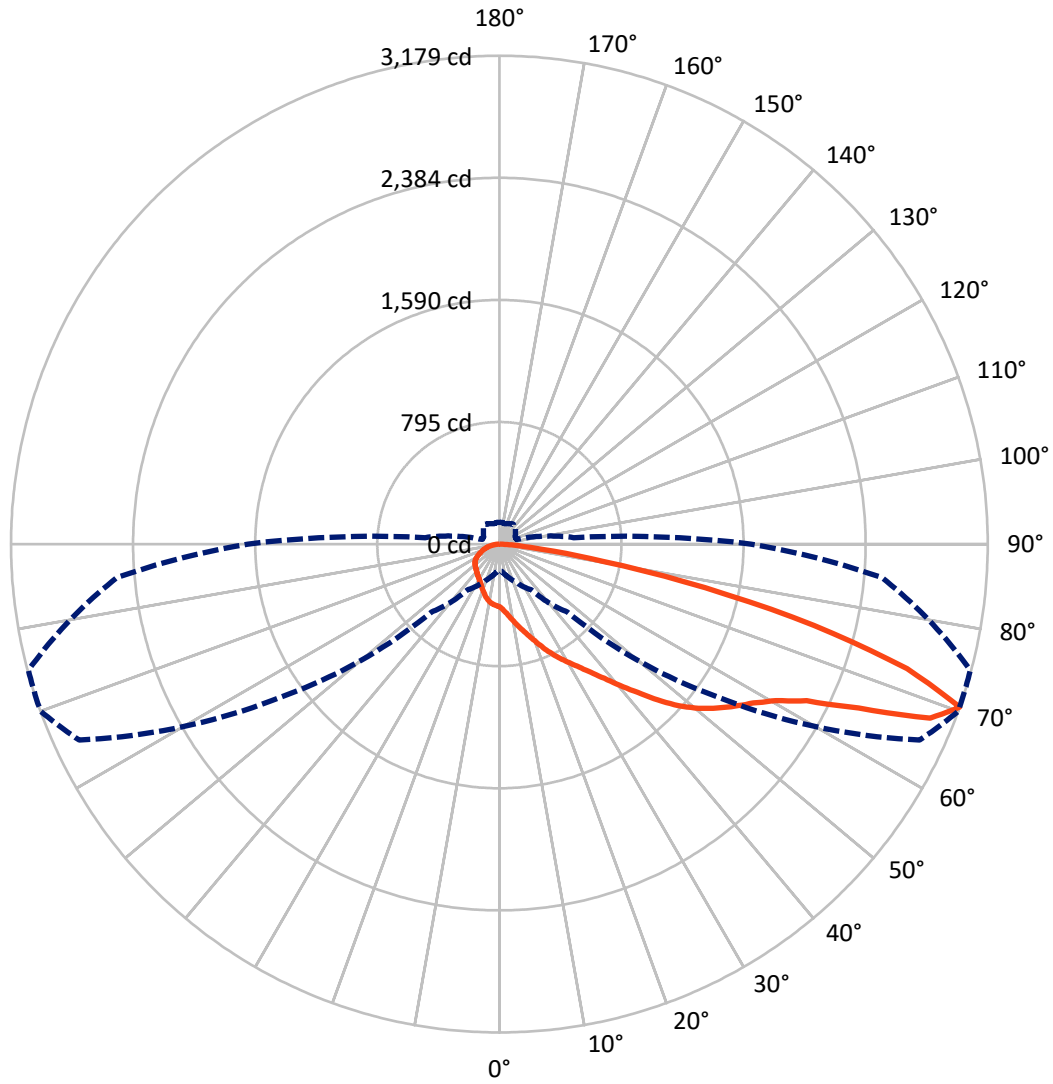
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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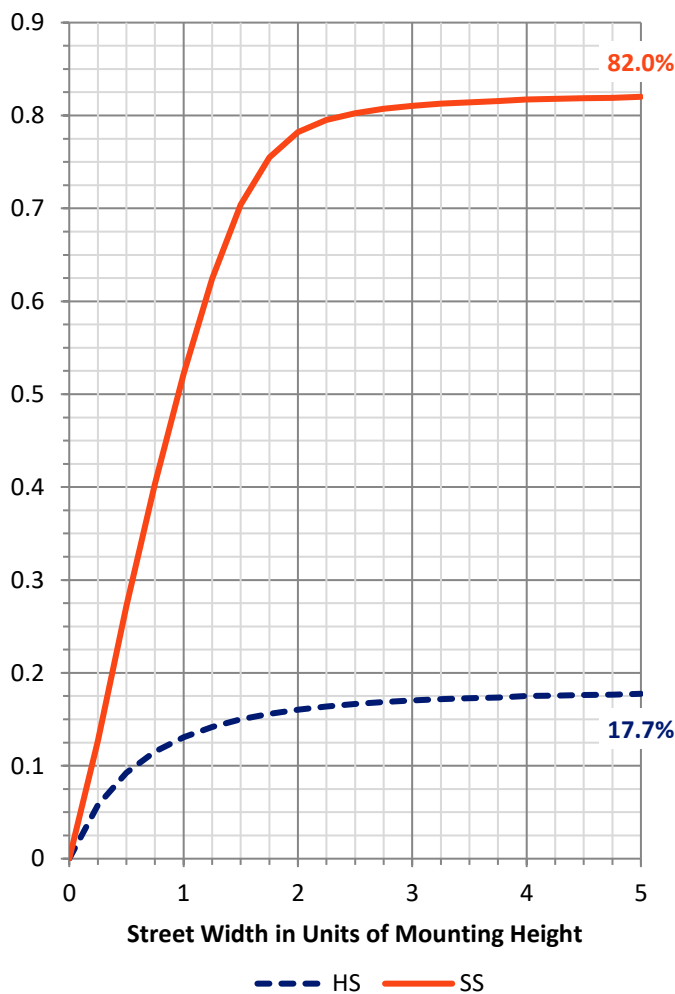
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	0.0	628.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	2878.6	0.0	2878.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	3507.1	0.0	3507.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.2
10°-20°	135.2	3.9
20°-30°	239.6	6.8
30°-40°	360.5	10.3
40°-50°	545.5	15.6
50°-60°	781.4	22.3
60°-70°	863.8	24.6
70°-80°	487.4	13.9
80°-90°	52.1	1.5
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°	3507.1	100.0
0°-180°	3507.1	100.0

Coefficient of Utilization



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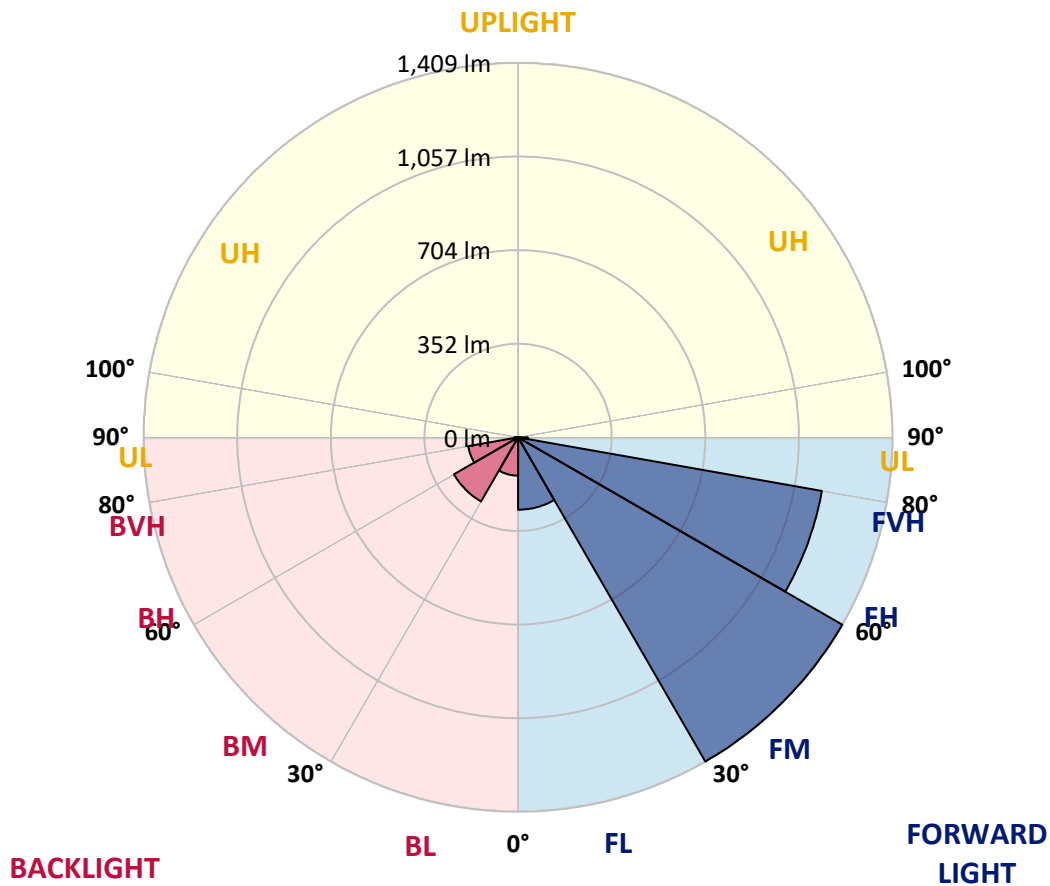
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.3	7.8			
FM (30°-60°)	1408.8	40.2			
FH (60°-80°)	1160.7	33.1			G1/1800
FVH (80°-90°)	36.9	1.1			G1/100
BL (0°-30°)	144.1	4.1	B1/500		
BM (30°-60°)	278.6	7.9	B1/1000		
BH (60°-80°)	190.5	5.4	B1/500		G1/500
BVH (80°-90°)	15.3	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0
2.5°	453.1	452.3	452.8	452.3	449.5	442.7	437.1	430.0	425.2	422.4	415.8
5°	506.3	505.5	503.8	501.2	496.2	486.8	472.9	457.4	448.0	440.9	427.0
7.5°	544.6	544.6	544.3	541.3	537.7	527.8	511.4	491.1	477.4	465.3	442.5
10°	564.1	565.4	567.1	571.4	570.7	565.4	549.9	528.1	510.9	496.7	462.7
12.5°	574.7	575.5	578.5	587.4	596.5	597.8	588.7	565.9	547.1	528.1	485.3
15°	588.4	588.7	592.7	603.4	616.8	630.2	627.9	605.1	585.9	564.8	510.4
17.5°	599.1	600.8	608.2	620.6	637.3	655.8	667.0	652.8	629.0	604.9	537.7
20°	602.9	604.1	613.8	632.8	655.6	681.7	706.5	702.7	678.6	650.2	568.6
22.5°	616.5	616.5	623.6	639.6	666.5	704.5	744.8	754.6	733.4	700.2	601.8
25°	646.7	645.7	649.0	655.6	675.8	722.7	782.5	812.2	788.4	751.1	635.0
27.5°	688.0	687.5	687.2	688.3	695.1	738.7	814.5	865.9	842.1	800.0	664.7
30°	732.9	731.3	734.6	731.6	730.1	757.7	841.6	914.0	895.5	848.4	689.3
32.5°	793.9	791.1	790.4	780.5	774.4	787.3	863.4	968.8	954.1	900.6	716.9
35°	874.5	872.0	859.1	843.3	825.3	831.4	890.5	1022.2	1023.3	966.0	753.1
37.5°	955.9	956.4	946.2	909.2	890.7	887.2	931.8	1087.4	1109.2	1044.0	800.0
40°	1023.5	1026.6	1026.6	987.5	959.9	956.6	989.8	1164.7	1208.0	1139.8	859.3
42.5°	1075.0	1077.7	1086.6	1058.5	1029.3	1040.7	1060.3	1242.2	1320.0	1258.2	934.3
45°	1131.5	1133.7	1138.6	1122.3	1105.4	1135.8	1140.1	1335.0	1448.2	1391.0	1021.5
47.5°	1206.5	1204.4	1205.0	1193.0	1179.9	1229.0	1228.0	1413.0	1572.1	1536.4	1116.0
50°	1299.7	1303.5	1300.0	1276.4	1261.0	1305.8	1311.6	1499.4	1681.1	1680.3	1211.3
52.5°	1389.4	1391.0	1409.7	1410.7	1379.0	1369.7	1384.9	1586.6	1773.1	1812.1	1302.8
55°	1394.0	1399.8	1456.1	1496.6	1547.8	1472.6	1458.9	1669.7	1862.0	1941.1	1397.8
57.5°	1296.9	1306.3	1401.9	1489.3	1631.7	1649.2	1585.6	1777.2	1951.0	2068.1	1507.8
60°	1089.7	1109.2	1238.9	1372.7	1593.9	1776.1	1844.8	1923.1	2067.8	2197.8	1641.3
62.5°	695.9	703.5	885.4	1109.4	1423.9	1763.7	2127.1	2180.3	2245.7	2366.8	1847.1
65°	348.4	372.8	479.4	662.2	1026.8	1554.2	2269.8	2651.4	2571.3	2656.2	2180.6
67.5°	236.4	244.3	298.3	397.9	602.1	1101.1	2181.3	3048.2	3024.7	3038.6	2536.1
70°	174.3	179.4	222.0	281.8	364.1	625.2	1736.6	3018.3	3179.3	3174.2	2498.9
72.5°	127.2	129.7	161.9	215.1	269.9	323.3	1060.5	2438.3	2775.3	2921.5	2185.4
75°	92.5	95.5	112.5	160.9	209.8	201.7	523.5	1761.2	2116.5	2397.7	1780.4
77.5°	68.9	72.7	80.6	100.9	147.0	144.4	226.3	1143.6	1368.9	1566.1	1081.5
80°	49.7	50.4	55.0	64.6	93.3	84.6	107.7	596.3	683.7	749.1	424.0
82.5°	30.2	30.9	36.7	39.8	57.8	53.2	56.0	193.1	276.7	293.7	158.4
85°	8.9	9.4	16.7	18.2	24.1	22.8	22.6	78.6	93.8	119.9	62.3
87.5°	0.0	0.0	0.0	0.0	0.3	1.5	2.8	13.9	21.0	29.1	15.2
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°	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0
2.5°	413.3	407.5	404.4	399.1	395.3	391.5	387.7	384.2	382.6	380.4	380.9
5°	420.7	411.5	402.4	392.0	383.2	375.8	369.2	363.4	360.9	358.6	359.6
7.5°	431.8	418.1	400.6	381.6	367.7	357.6	350.7	346.7	345.4	343.6	343.6
10°	446.0	425.5	394.8	367.7	351.0	342.9	339.8	339.6	340.8	341.1	340.6
12.5°	461.7	432.6	386.2	351.2	337.0	334.5	336.8	341.1	345.4	347.7	347.2
15°	477.9	437.1	371.5	335.5	326.9	330.2	337.5	346.2	354.5	358.8	358.6
17.5°	493.1	438.1	352.5	320.3	318.0	326.4	339.1	352.5	363.9	370.0	370.2
20°	510.1	436.4	333.0	306.6	309.2	322.8	339.6	355.8	369.2	375.3	376.8
22.5°	525.6	430.3	314.0	293.7	301.6	318.5	335.5	350.7	362.6	368.5	370.5
25°	539.5	418.6	293.2	282.8	295.7	312.5	325.4	336.0	344.4	347.9	350.7
27.5°	547.1	401.1	277.5	274.2	290.2	303.8	310.9	314.2	317.0	316.0	318.0
30°	548.6	379.4	263.8	267.3	281.8	291.9	293.4	290.2	285.3	277.5	279.3
32.5°	547.1	354.3	252.4	260.0	272.4	278.5	276.5	267.9	256.2	244.0	244.8
35°	547.6	328.9	243.0	251.9	261.5	264.8	259.7	247.8	235.4	224.3	223.8
37.5°	553.2	307.6	235.2	244.0	250.9	251.4	245.8	233.4	227.1	218.7	217.7
40°	568.6	291.9	228.1	236.2	240.5	240.2	233.9	225.0	229.3	226.5	225.8
42.5°	594.0	282.3	222.2	227.8	230.9	231.4	226.3	220.7	230.1	226.5	225.3
45°	634.8	281.8	218.2	219.5	224.3	227.8	224.3	217.9	221.5	204.2	201.0
47.5°	683.2	290.4	215.1	212.1	220.5	226.8	221.2	211.1	203.7	188.0	185.7
50°	741.5	307.9	212.4	204.2	214.9	223.0	217.4	203.5	192.3	184.0	182.7
52.5°	810.7	331.0	208.8	195.4	206.5	221.0	217.4	202.7	188.0	180.4	179.2
55°	883.1	357.6	204.8	184.7	197.2	221.5	219.2	197.4	184.7	180.7	179.7
57.5°	973.1	389.5	197.4	172.3	188.8	216.9	212.1	194.4	182.5	179.2	178.1
60°	1089.9	436.9	183.5	159.6	179.2	208.8	205.8	189.3	176.4	173.6	172.8
62.5°	1274.9	517.2	166.5	147.5	167.8	191.8	196.4	179.7	168.8	168.5	168.3
65°	1576.5	613.8	146.5	136.6	155.8	177.9	184.0	169.8	160.9	163.7	163.4
67.5°	1787.8	622.1	130.0	125.2	141.9	162.7	171.6	159.6	150.0	155.3	155.1
70°	1637.5	485.3	115.8	113.3	127.0	146.2	158.1	147.0	137.3	142.4	141.4
72.5°	1381.1	372.0	102.4	100.9	111.8	129.0	140.9	134.3	124.2	124.2	121.9
75°	1109.9	306.9	88.2	87.4	94.8	111.5	124.9	113.8	104.4	103.9	102.4
77.5°	636.6	201.2	74.0	73.5	75.8	93.3	97.1	94.8	87.7	84.4	83.4
80°	253.7	104.7	58.3	55.0	57.3	68.4	76.5	72.7	66.6	62.6	60.3
82.5°	98.3	52.5	41.1	36.0	39.3	49.4	55.5	54.2	50.2	41.1	38.5
85°	40.0	25.6	24.6	20.8	22.8	26.6	31.9	27.6	22.8	16.2	15.5
87.5°	10.6	9.4	9.1	5.6	4.3	1.3	0.3	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)