

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: P645596

Luminaire Tested: GWS-SA1C-740-U-T2-W

Issue Date: 3/3/2023

Test Information

Test Method: LM-79-2019
Report Number: P645596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/3/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4768.8 lumens
Efficiency: N/A
Efficacy: 139.8 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

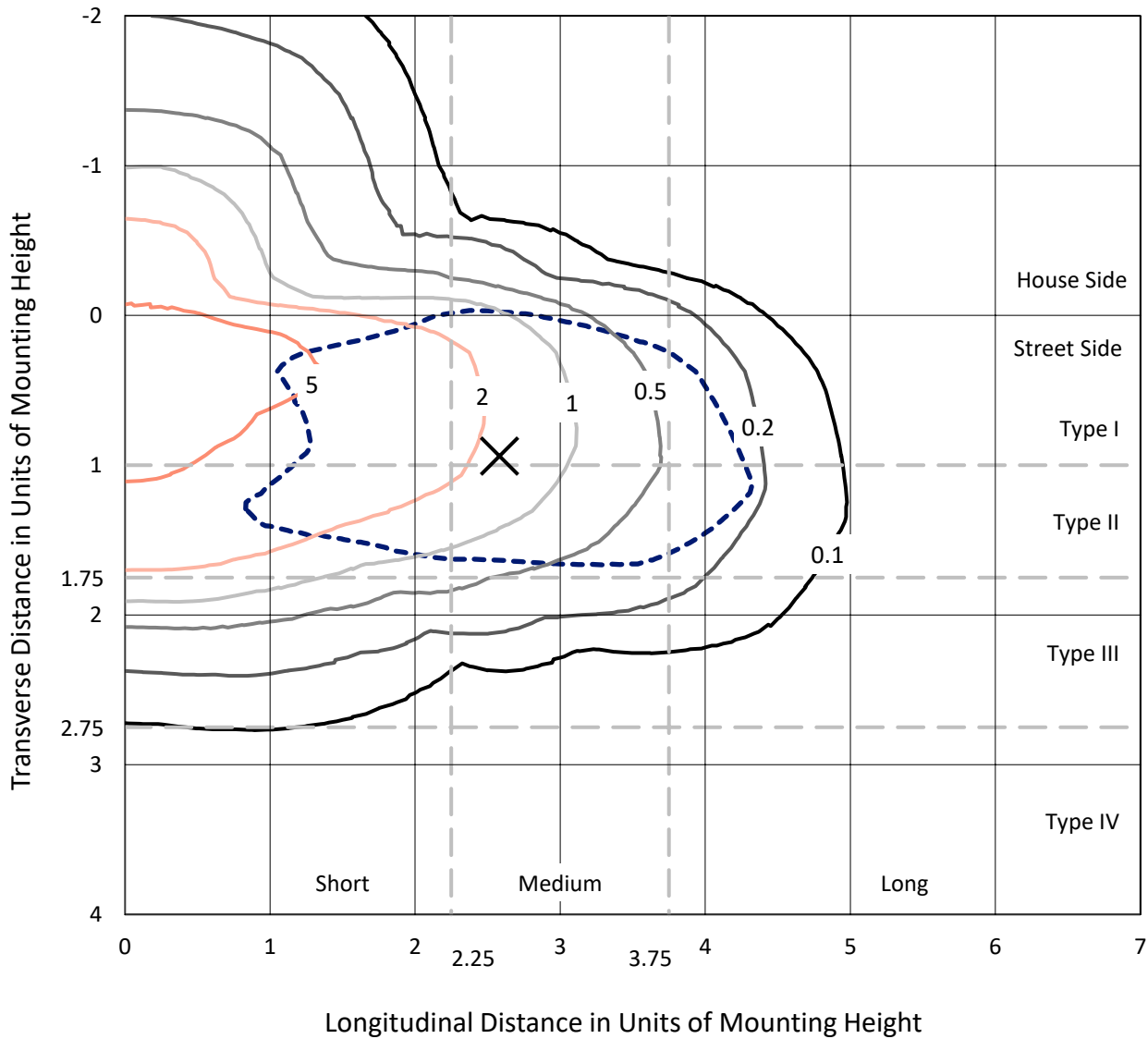
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

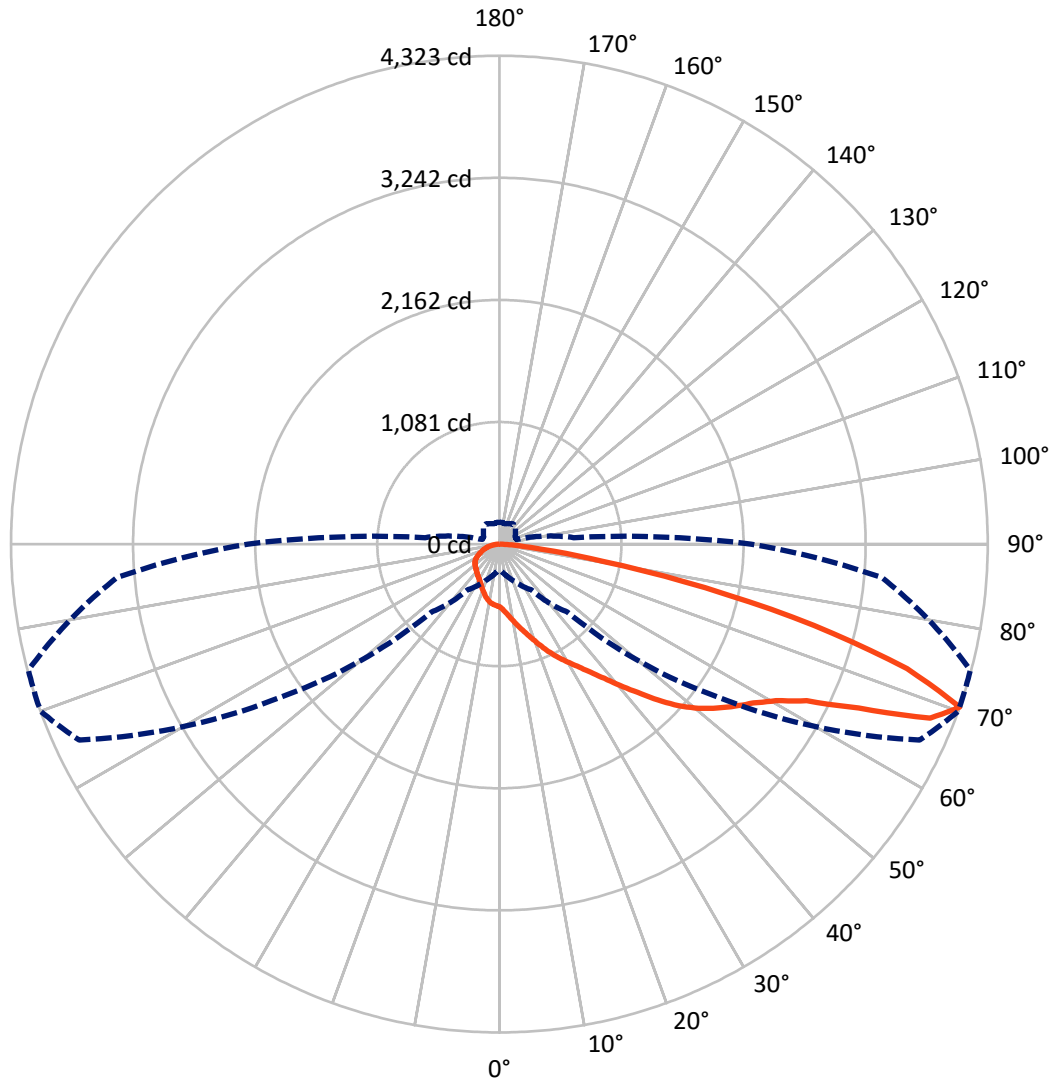
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 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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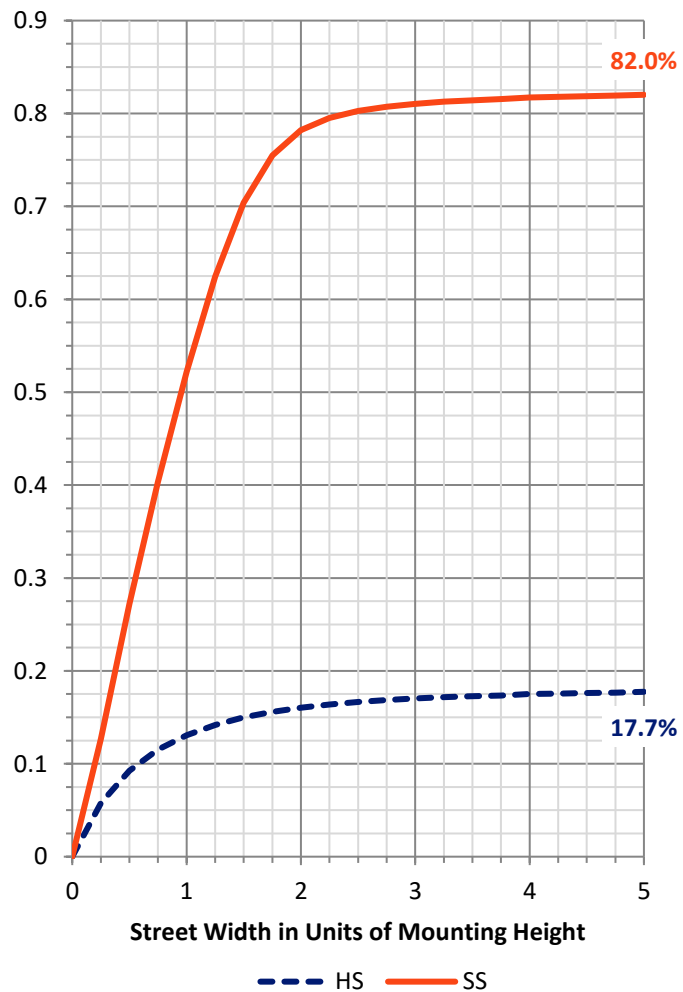
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.6	0.0	854.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	3914.2	0.0	3914.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	4768.8	0.0	4768.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.2
10°-20°	183.9	3.9
20°-30°	325.7	6.8
30°-40°	490.3	10.3
40°-50°	741.7	15.6
50°-60°	1062.5	22.3
60°-70°	1174.5	24.6
70°-80°	662.8	13.9
80°-90°	70.9	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°	4768.8	100.0
0°-180°	4768.8	100.0

Coefficient of Utilization



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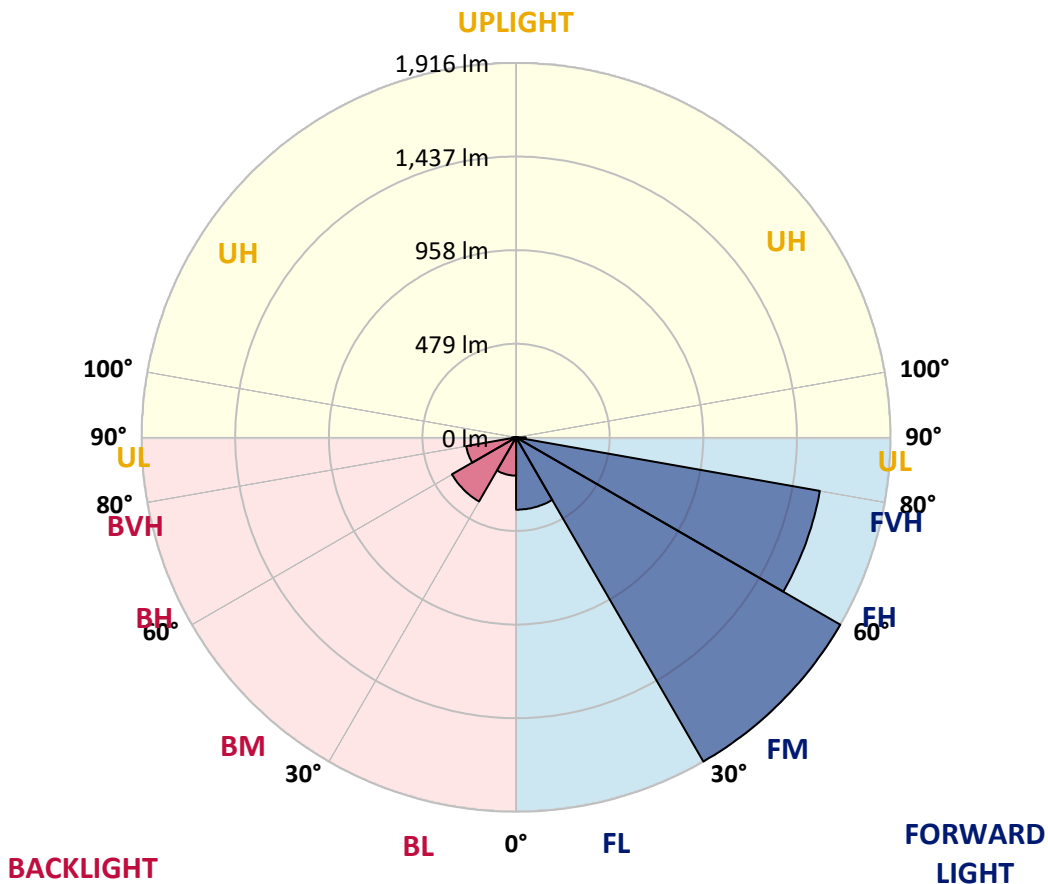
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.2	7.8			
FM (30°-60°)	1915.6	40.2			
FH (60°-80°)	1578.3	33.1			G1/1800
FVH (80°-90°)	50.1	1.1			G1/100
BL (0°-30°)	195.9	4.1	B1/500		
BM (30°-60°)	378.8	7.9	B1/1000		
BH (60°-80°)	259.0	5.4	B1/500		G1/500
BVH (80°-90°)	20.8	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°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	616.1	615.1	615.8	615.1	611.3	602.0	594.4	584.7	578.2	574.4	565.4
5°	688.5	687.4	685.0	681.6	674.7	661.9	643.0	622.0	609.2	599.6	580.6
7.5°	740.5	740.5	740.1	736.0	731.2	717.7	695.3	667.8	649.2	632.6	601.6
10°	767.0	768.7	771.2	777.0	776.0	768.7	747.7	718.1	694.7	675.4	629.2
12.5°	781.5	782.5	786.7	798.7	811.1	812.8	800.4	769.4	743.9	718.1	659.9
15°	800.1	800.4	806.0	820.4	838.7	857.0	853.9	822.8	796.7	768.1	694.0
17.5°	814.6	817.0	827.0	843.9	866.6	891.8	906.9	887.6	855.2	822.5	731.2
20°	819.7	821.5	834.6	860.4	891.4	926.9	960.7	955.5	922.8	884.2	773.2
22.5°	838.3	838.3	848.0	869.7	906.2	957.9	1012.7	1026.1	997.2	952.1	818.4
25°	879.4	878.0	882.5	891.4	919.0	982.7	1064.0	1104.4	1072.0	1021.3	863.5
27.5°	935.5	934.8	934.5	935.9	945.2	1004.4	1107.5	1177.4	1145.0	1087.8	903.8
30°	996.5	994.4	998.9	994.8	992.7	1030.3	1144.3	1242.9	1217.7	1153.6	937.2
32.5°	1079.5	1075.8	1074.7	1061.3	1053.0	1070.6	1174.0	1317.3	1297.3	1224.6	974.8
35°	1189.1	1185.7	1168.1	1146.7	1122.3	1130.5	1210.8	1390.0	1391.4	1313.5	1024.1
37.5°	1299.7	1300.4	1286.6	1236.3	1211.2	1206.4	1267.0	1478.6	1508.2	1419.6	1087.8
40°	1391.7	1395.9	1395.9	1342.8	1305.2	1300.8	1345.9	1583.7	1642.6	1549.9	1168.4
42.5°	1461.7	1465.5	1477.5	1439.3	1399.7	1415.2	1441.7	1689.1	1794.9	1710.8	1270.4
45°	1538.5	1541.6	1548.2	1526.1	1503.0	1544.4	1550.2	1815.2	1969.2	1891.4	1389.0
47.5°	1640.5	1637.8	1638.4	1622.2	1604.3	1671.2	1669.8	1921.3	2137.7	2089.1	1517.5
50°	1767.3	1772.5	1767.7	1735.6	1714.6	1775.6	1783.5	2038.8	2285.9	2284.9	1647.1
52.5°	1889.3	1891.4	1916.9	1918.2	1875.2	1862.4	1883.1	2157.4	2411.0	2464.0	1771.4
55°	1895.5	1903.4	1979.9	2035.0	2104.7	2002.3	1983.7	2270.4	2531.9	2639.4	1900.7
57.5°	1763.5	1776.3	1906.2	2025.1	2218.7	2242.5	2156.0	2416.5	2652.9	2812.1	2050.2
60°	1481.7	1508.2	1684.6	1866.6	2167.4	2415.1	2508.5	2615.0	2811.7	2988.5	2231.8
62.5°	946.2	956.5	1203.9	1508.5	1936.2	2398.2	2892.3	2964.7	3053.6	3218.3	2511.6
65°	473.8	506.9	651.9	900.4	1396.2	2113.3	3086.3	3605.3	3496.4	3611.8	2965.1
67.5°	321.5	332.2	405.6	541.0	818.7	1497.2	2966.1	4144.9	4112.8	4131.8	3448.5
70°	237.1	244.0	301.8	383.2	495.2	850.1	2361.4	4104.2	4323.0	4316.1	3397.8
72.5°	173.0	176.4	220.2	292.5	367.0	439.7	1442.0	3315.5	3773.8	3972.6	2971.6
75°	125.8	129.9	153.0	218.8	285.3	274.3	711.9	2394.8	2877.9	3260.3	2421.0
77.5°	93.7	98.9	109.6	137.1	199.9	196.4	307.7	1555.1	1861.4	2129.5	1470.6
80°	67.5	68.6	74.8	87.9	126.8	115.1	146.4	810.8	929.7	1018.6	576.5
82.5°	41.0	42.0	50.0	54.1	78.6	72.4	76.2	262.6	376.3	399.4	215.4
85°	12.1	12.7	22.7	24.8	32.7	31.0	30.7	106.8	127.5	163.0	84.8
87.5°	0.0	0.0	0.0	0.0	0.3	2.1	3.8	19.0	28.6	39.6	20.7
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°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	562.0	554.1	549.9	542.7	537.5	532.4	527.2	522.4	520.3	517.2	517.9
5°	572.0	559.6	547.2	533.1	521.0	511.0	502.0	494.1	490.7	487.6	488.9
7.5°	587.2	568.5	544.8	518.9	500.0	486.2	476.9	471.4	469.7	467.2	467.2
10°	606.4	578.5	536.8	500.0	477.2	466.2	462.1	461.7	463.5	463.8	463.1
12.5°	627.8	588.2	525.1	477.6	458.3	454.8	457.9	463.8	469.7	472.8	472.1
15°	649.9	594.4	505.1	456.2	444.5	449.0	459.0	470.7	482.1	487.9	487.6
17.5°	670.5	595.8	479.3	435.5	432.4	443.8	461.0	479.3	494.8	503.1	503.4
20°	693.6	593.4	452.8	416.9	420.4	439.0	461.7	483.8	502.0	510.3	512.4
22.5°	714.6	585.1	426.9	399.4	410.0	433.1	456.2	476.9	493.1	501.0	503.8
25°	733.6	569.2	398.7	384.5	402.1	424.9	442.4	456.9	468.3	473.1	476.9
27.5°	743.9	545.5	377.3	372.8	394.5	413.1	422.8	427.3	431.1	429.7	432.4
30°	746.0	515.8	358.7	363.5	383.2	396.9	399.0	394.5	388.0	377.3	379.7
32.5°	743.9	481.7	343.2	353.5	370.4	378.7	375.9	364.2	348.4	331.8	332.9
35°	744.6	447.3	330.4	342.5	355.6	360.1	353.2	337.0	320.1	304.9	304.3
37.5°	752.2	418.3	319.8	331.8	341.1	341.8	334.2	317.4	308.7	297.4	296.0
40°	773.2	396.9	310.1	321.1	327.0	326.7	318.0	306.0	311.8	308.0	307.0
42.5°	807.7	383.9	302.2	309.8	313.9	314.6	307.7	300.1	312.9	308.0	306.3
45°	863.2	383.2	296.7	298.4	304.9	309.8	304.9	296.3	301.2	277.7	273.2
47.5°	929.0	394.9	292.5	288.4	299.8	308.4	300.8	287.0	277.0	255.7	252.6
50°	1008.2	418.7	288.8	277.7	292.2	303.2	295.6	276.7	261.5	250.2	248.4
52.5°	1102.3	450.0	283.9	265.7	280.8	300.5	295.6	275.7	255.7	245.3	243.6
55°	1200.8	486.2	278.4	251.2	268.1	301.2	298.1	268.4	251.2	245.7	244.3
57.5°	1323.2	529.6	268.4	234.3	256.7	295.0	288.4	264.3	248.1	243.6	242.2
60°	1482.0	594.0	249.5	217.1	243.6	283.9	279.8	257.4	239.8	236.0	235.0
62.5°	1733.5	703.3	226.4	200.5	228.1	260.8	267.0	244.3	229.5	229.1	228.8
65°	2143.6	834.6	199.2	185.7	211.9	241.9	250.2	230.9	218.8	222.6	222.2
67.5°	2431.0	845.9	176.8	170.2	193.0	221.2	233.3	217.1	204.0	211.2	210.9
70°	2226.6	659.9	157.5	154.0	172.6	198.8	215.0	199.9	186.8	193.7	192.3
72.5°	1877.9	505.8	139.2	137.1	152.0	175.4	191.6	182.6	168.8	168.8	165.7
75°	1509.2	417.3	119.9	118.9	128.9	151.6	169.9	154.7	142.0	141.3	139.2
77.5°	865.6	273.6	100.6	99.9	103.0	126.8	132.0	128.9	119.2	114.7	113.4
80°	344.9	142.3	79.3	74.8	77.9	93.0	104.1	98.9	90.6	85.1	82.0
82.5°	133.7	71.3	55.8	48.9	53.4	67.2	75.5	73.7	68.2	55.8	52.4
85°	54.4	34.8	33.4	28.3	31.0	36.2	43.4	37.6	31.0	22.1	21.0
87.5°	14.5	12.7	12.4	7.6	5.9	1.7	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)