

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: P629832

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-740-U-AFLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4894.6 lumens
Efficiency: N/A
Efficacy: 143.5 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

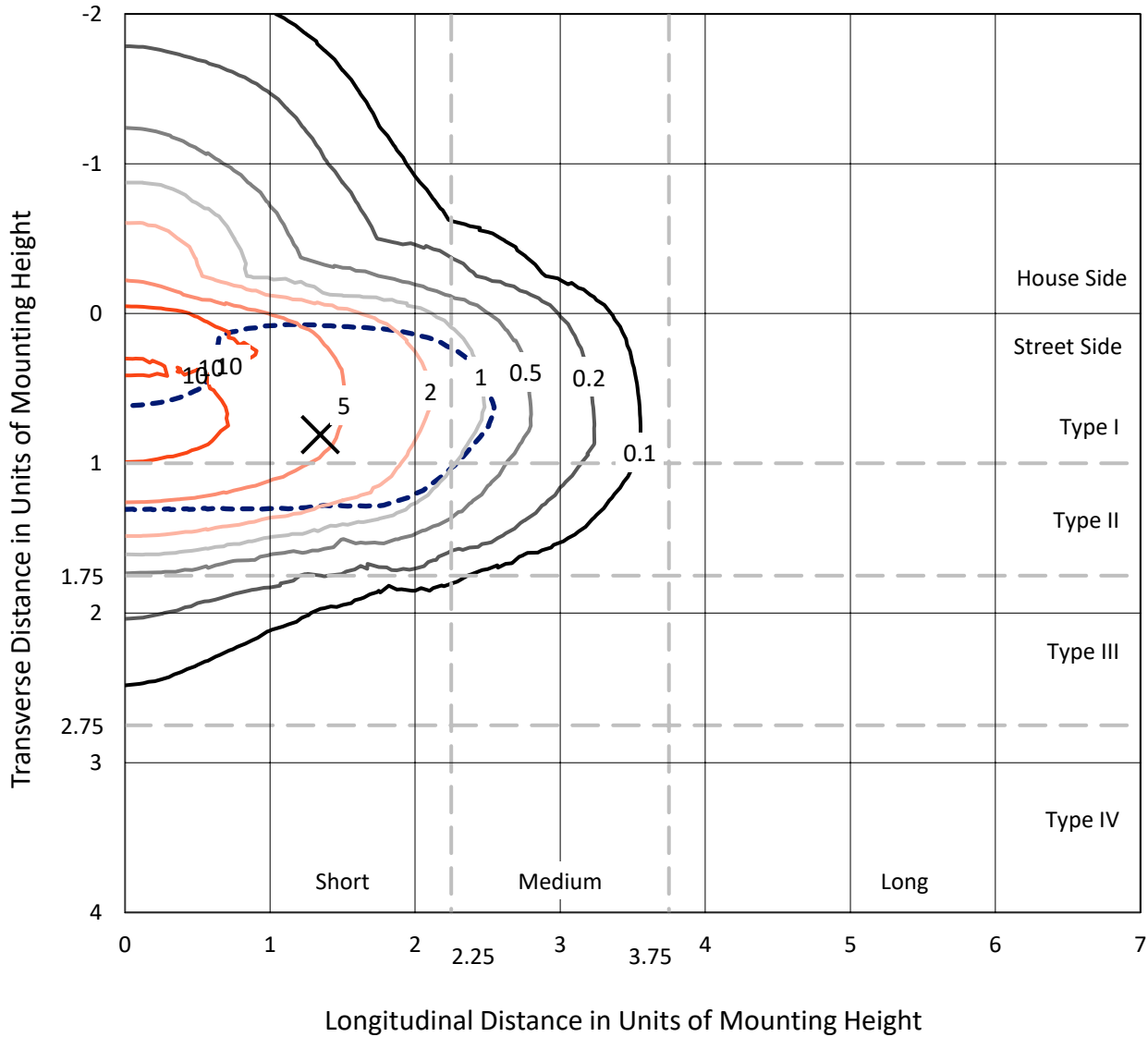
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

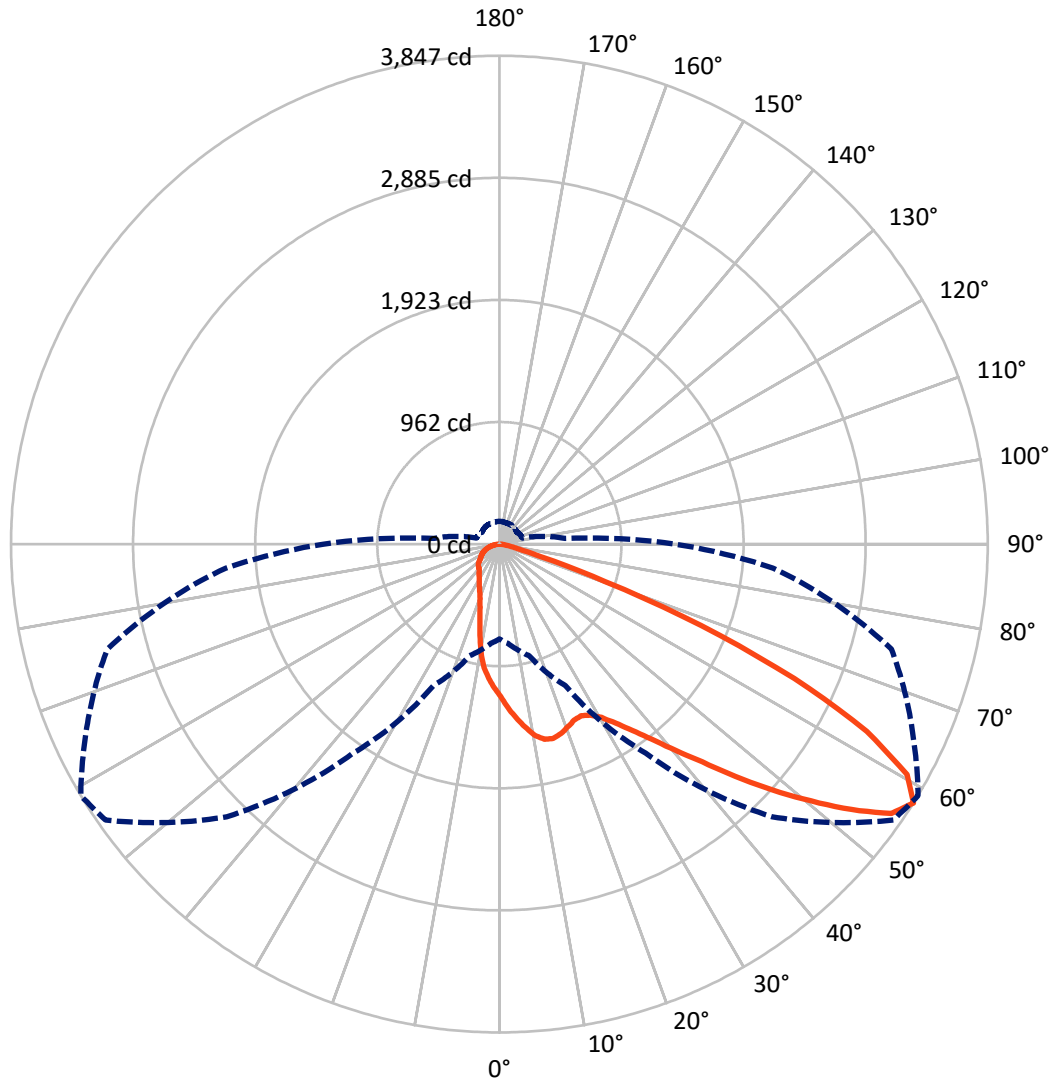
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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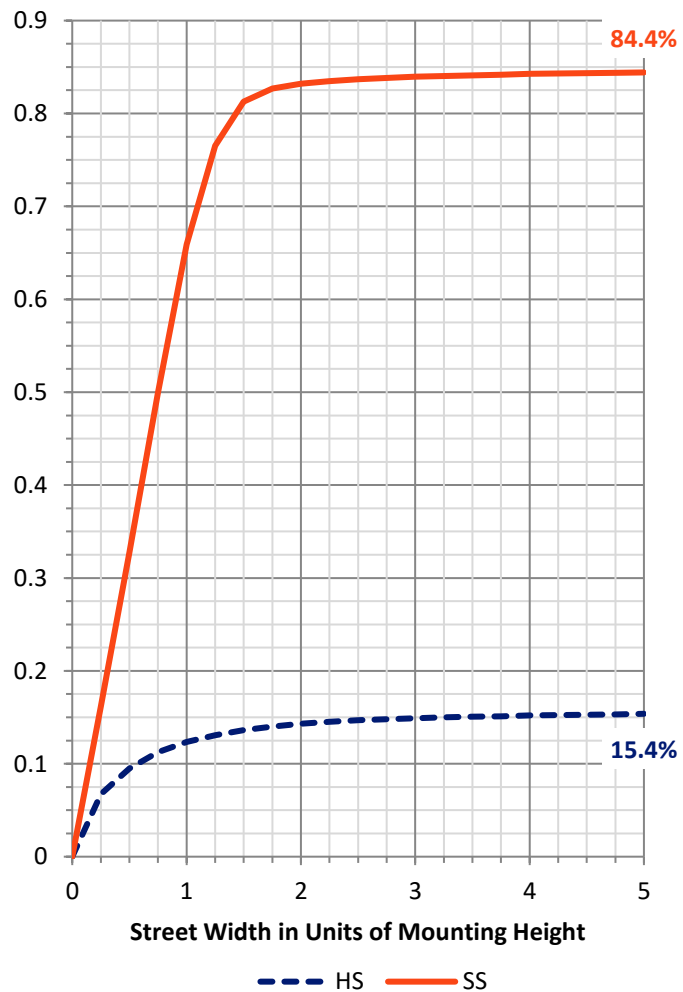
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	759.6	0.0	759.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4135.0	0.0	4135.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	4894.6	0.0	4894.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	2.3
10°-20°	282.7	5.8
20°-30°	458.3	9.4
30°-40°	737.2	15.1
40°-50°	1144.8	23.4
50°-60°	1233.1	25.2
60°-70°	715.6	14.6
70°-80°	186.8	3.8
80°-90°	24.6	0.5
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°	4894.6	100.0
0°-180°	4894.6	100.0

Coefficient of Utilization



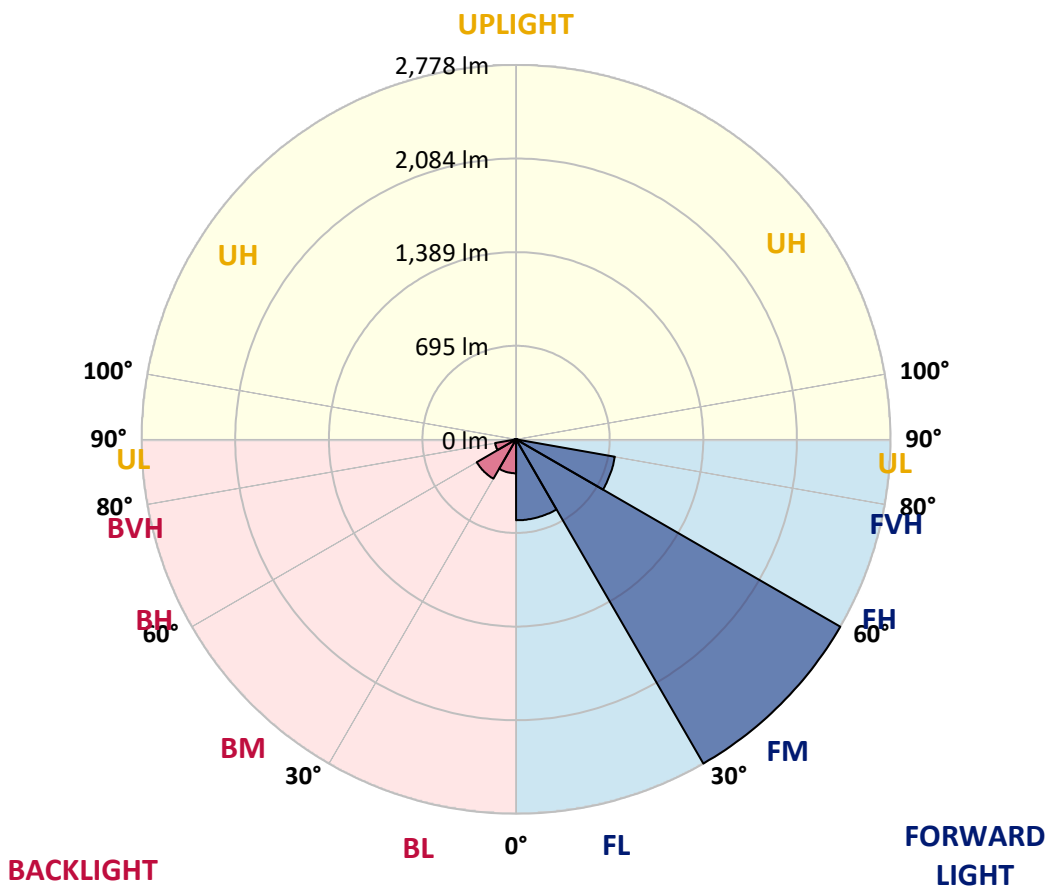
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.5	12.3			
FM (30°-60°)	2778.2	56.8			
FH (60°-80°)	744.4	15.2			G1/1800
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	252.0	5.1	B1/500		
BM (30°-60°)	336.8	6.9	B1/1000		
BH (60°-80°)	158.0	3.2	B1/500		G1/500
BVH (80°-90°)	12.8	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°	59°	65°	75°	85°
0°	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5
2.5°	1362.8	1351.4	1359.3	1345.2	1339.4	1323.8	1303.9	1290.4	1269.8	1242.9	1219.4
5°	1498.2	1490.3	1492.0	1476.8	1463.4	1437.6	1396.6	1373.8	1338.7	1284.6	1234.3
7.5°	1494.1	1503.4	1508.5	1521.6	1525.4	1523.0	1486.1	1454.4	1415.9	1334.5	1258.7
10°	1339.4	1356.9	1372.8	1417.6	1472.0	1540.9	1549.5	1530.6	1491.7	1398.3	1288.0
12.5°	1170.9	1184.3	1198.4	1252.2	1335.6	1473.4	1566.8	1578.5	1563.0	1461.3	1321.1
15°	1088.2	1094.4	1107.8	1143.3	1209.8	1362.8	1536.8	1588.1	1616.0	1528.2	1358.3
17.5°	1084.7	1087.5	1094.0	1113.0	1159.1	1277.3	1482.7	1568.8	1657.7	1598.8	1401.7
20°	1156.0	1148.8	1144.7	1144.3	1167.1	1248.7	1430.3	1537.8	1677.4	1671.2	1448.2
22.5°	1254.9	1257.3	1248.4	1226.3	1223.6	1269.1	1404.1	1506.5	1683.2	1735.3	1491.3
25°	1395.2	1407.2	1380.7	1338.7	1318.0	1328.0	1420.3	1496.8	1682.6	1788.7	1518.2
27.5°	1558.8	1568.2	1541.3	1486.1	1443.4	1419.3	1468.6	1525.4	1688.4	1834.9	1534.4
30°	1745.3	1748.4	1711.5	1653.6	1591.2	1539.6	1548.9	1584.3	1718.4	1895.5	1553.3
32.5°	1973.0	1986.1	1930.3	1838.6	1751.5	1685.3	1656.7	1679.4	1783.2	1967.2	1582.6
35°	2262.1	2266.6	2195.6	2064.3	1941.0	1849.3	1789.4	1801.4	1881.7	2067.4	1626.7
37.5°	2534.7	2539.2	2463.7	2341.7	2165.3	2039.9	1953.0	1947.5	2007.8	2209.1	1698.7
40°	2707.7	2720.4	2686.6	2610.1	2441.6	2272.5	2154.6	2135.7	2173.2	2382.4	1799.0
42.5°	2800.7	2806.2	2805.5	2815.5	2715.2	2547.1	2382.0	2344.1	2369.3	2569.5	1900.3
45°	2801.4	2815.2	2852.0	2948.2	2952.6	2847.9	2669.4	2610.1	2587.1	2758.0	2006.1
47.5°	2676.0	2690.8	2792.1	2981.2	3120.8	3144.6	3013.6	2894.8	2797.6	2920.3	2092.9
50°	2296.2	2333.4	2526.4	2861.0	3153.9	3382.3	3342.0	3180.8	2984.7	3045.7	2147.4
52.5°	1966.5	1965.1	2084.0	2521.2	3015.7	3487.1	3659.7	3475.0	3169.7	3125.3	2161.2
55°	1440.0	1447.9	1569.5	1928.2	2647.0	3385.8	3834.4	3745.9	3382.0	3167.7	2155.6
57.5°	746.7	786.0	910.7	1230.5	2011.3	3037.1	3787.9	3846.8	3597.7	3197.6	2162.9
60°	377.3	369.7	414.5	587.5	1165.3	2372.0	3501.2	3689.0	3636.6	3221.1	2167.4
62.5°	251.9	249.8	237.4	272.2	476.2	1404.8	2984.7	3247.9	3366.1	3165.9	2110.2
65°	218.1	214.0	191.2	189.9	231.2	582.7	2187.7	2553.3	2782.1	2920.9	1973.4
67.5°	196.4	190.2	167.1	155.7	166.1	256.0	1232.9	1712.5	2054.3	2470.2	1673.6
70°	175.4	172.3	149.2	132.7	131.6	156.1	454.1	883.8	1257.0	1685.3	1223.6
72.5°	157.1	151.6	132.0	116.1	108.2	110.6	197.1	340.4	650.6	1051.3	731.9
75°	136.1	132.0	114.7	98.9	89.2	81.0	120.3	157.5	296.7	499.6	345.6
77.5°	105.1	102.3	90.6	78.6	73.0	60.3	73.0	99.2	137.1	210.5	179.9
80°	61.0	62.7	67.5	61.3	53.8	43.1	47.6	57.2	82.4	114.1	102.0
82.5°	30.7	32.7	43.8	35.5	32.0	25.2	28.3	33.8	43.1	63.1	40.0
85°	2.4	2.4	7.9	9.0	11.0	9.0	11.4	13.8	19.6	25.2	13.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.7	3.1	5.9	3.8
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°	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5	1201.5
2.5°	1203.6	1186.0	1165.0	1147.8	1121.2	1107.1	1089.2	1067.1	1058.2	1054.0	1051.6
5°	1206.0	1175.0	1130.2	1088.9	1043.0	1006.8	966.5	924.5	900.4	894.5	890.4
7.5°	1215.0	1171.5	1100.2	1032.0	946.9	868.0	791.1	715.0	676.1	661.2	659.9
10°	1227.4	1170.2	1069.9	956.5	812.8	688.1	598.2	538.6	513.4	505.1	502.4
12.5°	1242.9	1169.1	1029.9	851.8	658.1	540.3	488.9	479.3	482.7	482.1	482.1
15°	1262.5	1170.5	981.7	733.3	532.4	469.0	470.0	481.4	492.1	493.8	493.8
17.5°	1283.9	1169.1	911.7	614.4	456.9	452.1	467.9	483.8	493.4	494.8	494.8
20°	1307.0	1162.6	823.5	502.4	423.8	441.4	458.6	471.0	476.9	478.3	478.3
22.5°	1320.7	1144.0	727.7	425.2	402.8	424.5	435.9	448.6	449.3	438.3	438.0
25°	1318.7	1109.2	618.5	375.6	380.4	399.4	413.8	404.9	393.8	387.6	386.6
27.5°	1305.6	1056.8	507.2	338.0	353.9	375.2	370.8	363.2	360.4	353.5	352.8
30°	1289.0	992.4	407.3	308.7	326.3	346.0	339.1	338.4	335.6	328.0	328.0
32.5°	1273.2	925.9	331.8	287.0	308.7	310.1	319.8	320.5	319.1	306.0	304.6
35°	1268.7	859.4	280.8	269.8	291.5	290.8	304.6	304.3	280.5	262.2	261.9
37.5°	1282.2	791.8	250.5	255.7	267.7	276.7	287.7	267.7	259.8	248.8	248.1
40°	1310.8	729.5	235.0	247.4	252.6	265.7	248.4	249.8	247.7	239.5	238.4
42.5°	1348.7	676.4	226.4	244.6	244.0	247.4	228.5	234.0	237.1	230.9	229.8
45°	1385.2	630.2	221.9	234.3	237.8	217.8	214.0	219.1	224.0	221.6	220.5
47.5°	1412.1	590.3	219.5	220.2	229.8	207.8	201.6	204.0	209.8	210.9	210.5
50°	1420.3	556.1	216.7	208.5	206.4	197.8	193.0	192.3	199.2	204.0	204.7
52.5°	1404.5	525.8	209.5	198.1	188.1	189.5	187.8	184.3	191.2	197.8	198.5
55°	1381.0	508.6	198.1	188.1	176.4	181.9	182.6	179.5	184.0	188.5	188.5
57.5°	1382.8	518.6	187.1	178.8	166.1	173.3	177.1	175.7	175.7	179.2	179.5
60°	1394.1	533.1	179.9	167.1	155.7	163.3	171.9	170.6	167.5	171.9	171.9
62.5°	1361.4	513.8	175.0	155.7	144.7	153.7	164.0	163.3	159.9	167.1	167.8
65°	1264.9	462.1	169.5	141.6	133.7	144.0	153.0	155.4	152.3	161.9	163.7
67.5°	1060.3	388.7	158.8	128.2	122.7	132.3	140.9	144.4	142.0	153.3	154.7
70°	790.5	314.6	142.0	113.4	109.2	117.8	125.8	127.1	127.5	140.9	142.3
72.5°	504.1	244.6	119.6	96.8	93.7	100.3	106.1	111.6	114.1	126.8	126.5
75°	281.2	181.9	96.1	82.0	76.5	81.7	88.6	95.1	102.0	120.6	122.7
77.5°	161.9	127.8	76.2	65.8	59.3	64.8	70.6	79.9	100.6	116.8	114.7
80°	91.3	83.0	57.5	48.2	44.1	48.2	52.7	70.3	79.3	86.1	87.2
82.5°	42.7	46.5	39.3	29.6	29.6	32.4	36.5	54.4	60.0	48.9	42.7
85°	15.5	21.0	19.3	15.2	13.4	13.1	22.7	31.0	19.3	17.2	14.8
87.5°	4.1	5.9	5.5	3.8	2.1	1.7	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)