

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: P629831

Luminaire Tested: GWS-SA1C-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4030.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

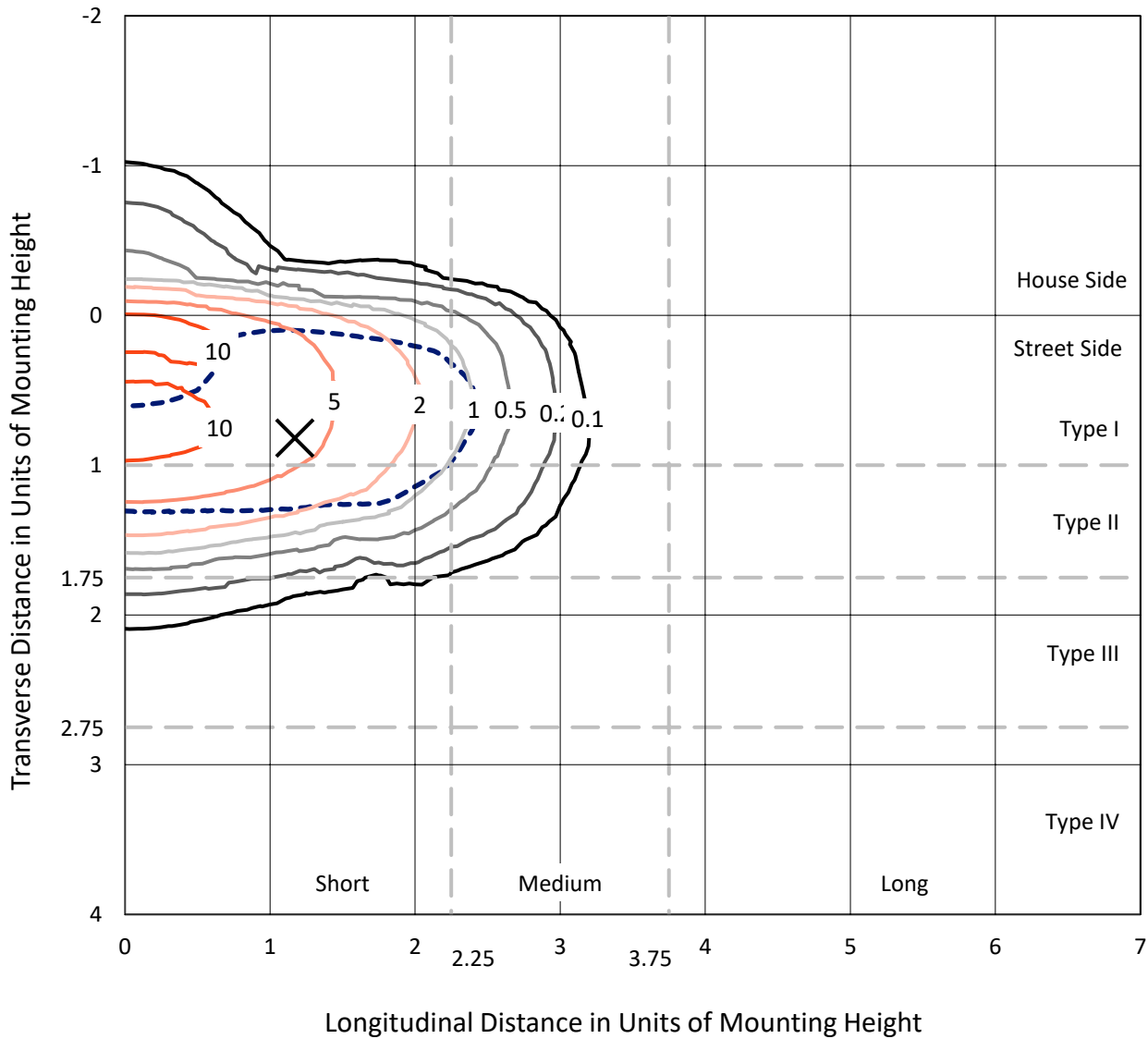
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

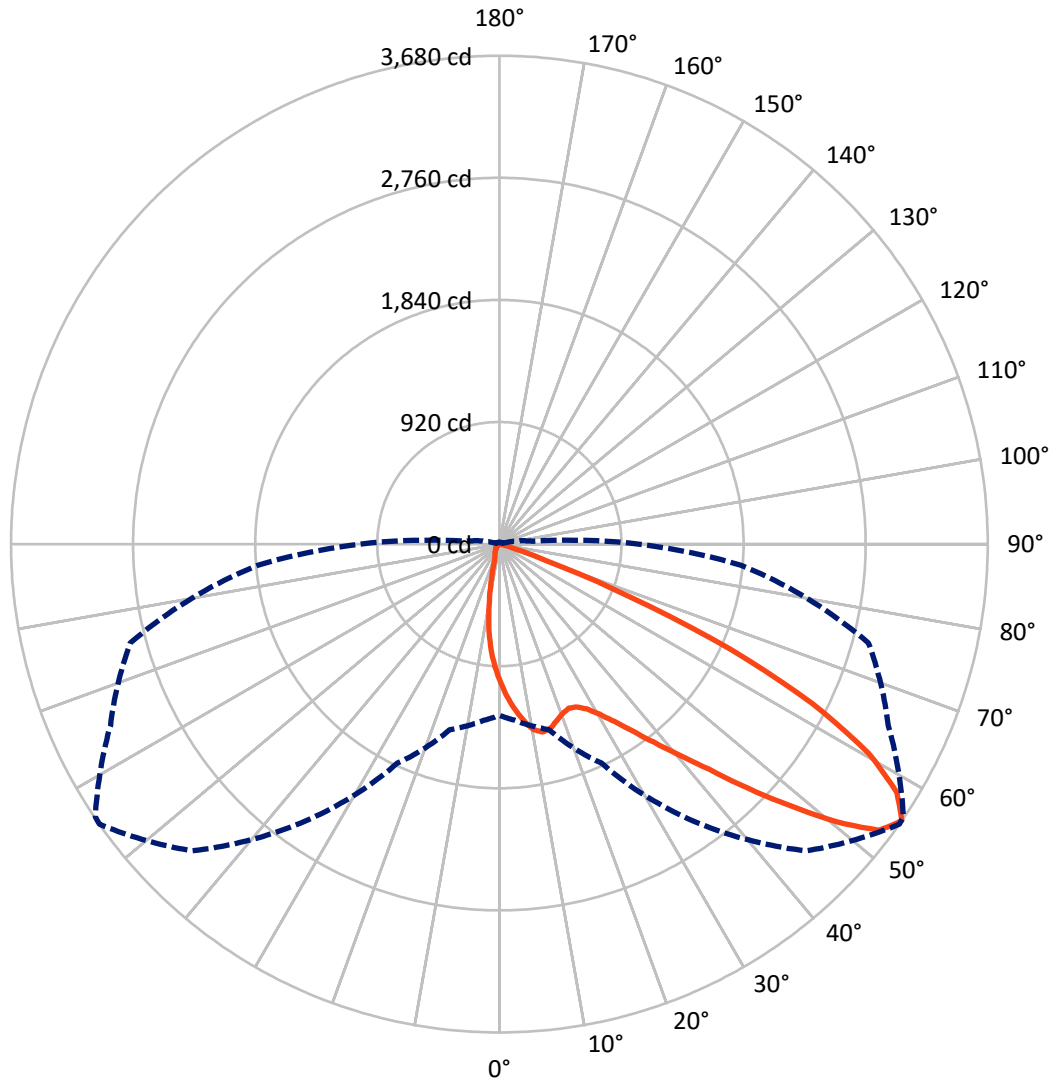
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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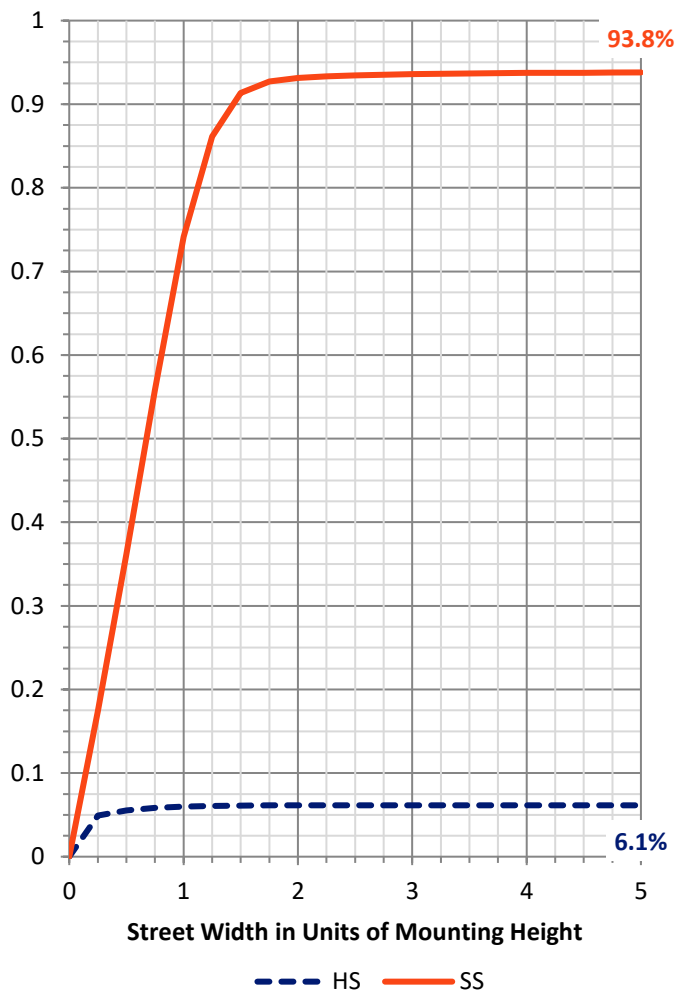
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	248.7	0.0	248.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3782.1	0.0	3782.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	4030.8	0.0	4030.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	2.3
10°-20°	221.9	5.5
20°-30°	369.5	9.2
30°-40°	629.6	15.6
40°-50°	1027.8	25.5
50°-60°	1076.1	26.7
60°-70°	542.7	13.5
70°-80°	68.6	1.7
80°-90°	2.6	0.1
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°	4030.8	100.0
0°-180°	4030.8	100.0

Coefficient of Utilization

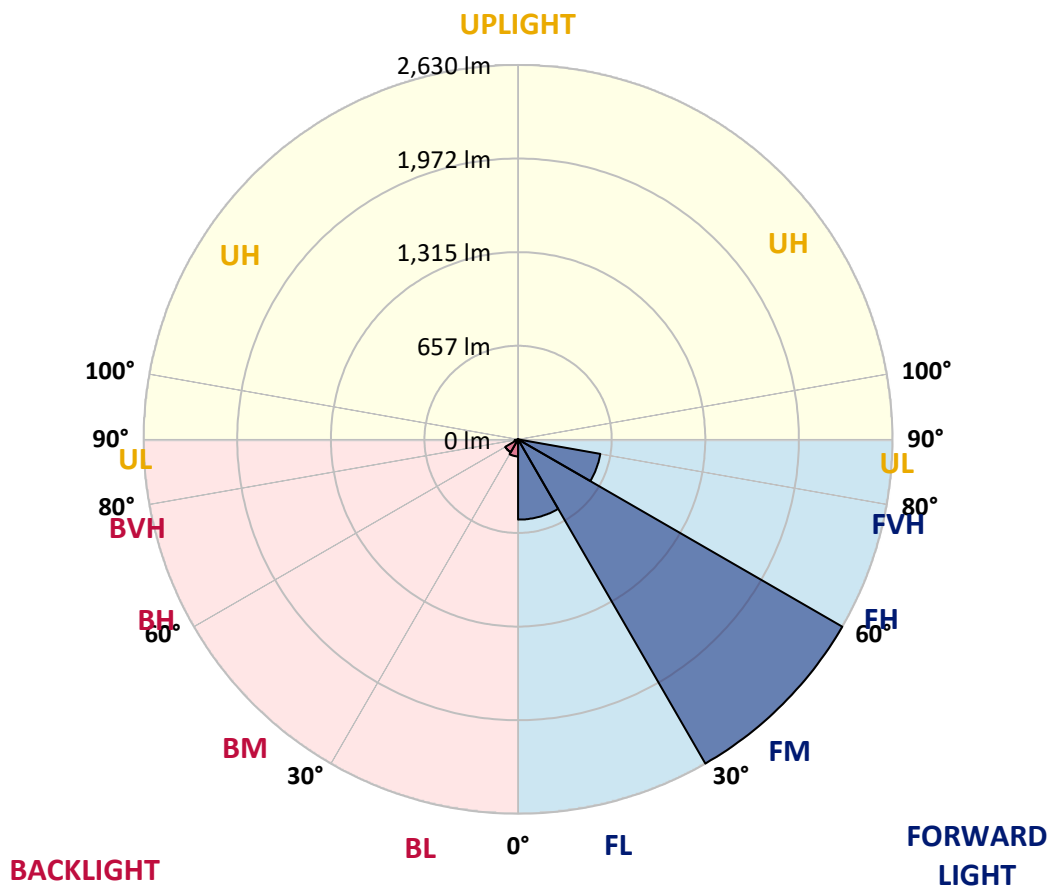


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.9	14.0			
FM (30°-60°)	2629.5	65.2			
FH (60°-80°)	586.4	14.5			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	119.5	3.0	B1/500		
BM (30°-60°)	104.0	2.6	B0/220		
BH (60°-80°)	24.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1214.0	1208.1	1217.1	1206.7	1189.1	1174.3	1155.0	1148.1	1117.1	1087.8	1059.6
5°	1361.4	1363.2	1360.4	1345.9	1321.1	1293.6	1254.6	1246.0	1191.9	1136.1	1075.8
7.5°	1398.0	1396.9	1402.8	1408.3	1404.2	1390.4	1348.0	1339.4	1272.2	1188.5	1100.6
10°	1285.3	1286.0	1298.0	1335.2	1381.4	1429.3	1422.8	1417.9	1352.1	1247.7	1128.2
12.5°	1126.1	1132.3	1145.0	1198.1	1276.3	1385.2	1452.8	1457.6	1425.5	1312.9	1160.5
15°	1057.2	1058.6	1068.9	1100.9	1159.2	1293.6	1440.0	1453.4	1486.9	1378.3	1195.7
17.5°	1055.5	1057.2	1061.7	1075.8	1113.7	1221.5	1399.0	1422.4	1533.0	1448.6	1237.7
20°	1120.2	1119.2	1116.1	1108.5	1125.1	1197.8	1361.1	1386.9	1558.2	1517.2	1280.1
22.5°	1237.7	1236.4	1222.6	1191.2	1177.8	1219.5	1342.5	1365.9	1573.4	1578.2	1314.9
25°	1373.2	1382.8	1357.0	1309.4	1276.3	1274.9	1359.0	1375.6	1586.4	1632.3	1338.7
27.5°	1521.7	1524.8	1502.7	1449.3	1401.4	1363.9	1406.9	1419.3	1600.9	1680.5	1352.1
30°	1684.7	1683.6	1658.5	1596.4	1538.2	1484.1	1487.6	1492.4	1634.7	1735.7	1367.0
32.5°	1888.3	1892.8	1848.0	1763.6	1693.6	1618.8	1593.0	1593.7	1695.7	1806.6	1389.3
35°	2165.0	2154.0	2094.7	1974.4	1855.2	1774.6	1730.5	1726.7	1789.8	1902.1	1428.3
37.5°	2428.6	2429.6	2367.6	2235.3	2084.7	1957.6	1895.2	1884.9	1922.1	2034.4	1493.1
40°	2611.6	2615.0	2589.2	2519.9	2360.4	2180.5	2088.8	2078.2	2093.7	2201.9	1577.8
42.5°	2708.4	2718.1	2725.3	2741.5	2620.5	2458.9	2318.0	2317.0	2300.8	2392.8	1676.0
45°	2712.2	2726.7	2770.8	2881.4	2895.2	2776.6	2623.3	2600.2	2537.8	2597.1	1763.9
47.5°	2562.3	2595.7	2689.5	2908.6	3053.3	3092.6	2940.7	2926.5	2751.5	2758.7	1829.7
50°	2212.9	2247.7	2420.3	2769.0	3093.3	3343.5	3289.0	3259.7	2930.0	2865.5	1861.4
52.5°	1854.5	1886.2	2003.4	2436.9	2927.6	3422.4	3582.6	3547.8	3090.2	2902.7	1848.3
55°	1290.5	1332.8	1447.2	1821.5	2545.8	3268.7	3679.8	3672.5	3233.2	2879.3	1828.0
57.5°	632.7	674.7	788.7	1123.0	1885.9	2853.8	3531.3	3569.5	3318.7	2854.2	1811.5
60°	264.3	281.5	320.8	492.8	1055.1	2156.7	3196.0	3249.1	3266.3	2820.0	1809.7
62.5°	153.3	156.1	160.2	204.3	410.4	1236.4	2651.2	2726.7	2991.0	2774.9	1782.5
65°	115.8	116.8	115.1	125.4	169.5	469.0	1915.5	2018.2	2496.5	2598.5	1675.0
67.5°	95.1	95.1	90.6	92.7	106.5	175.7	1057.5	1200.9	1847.3	2135.7	1383.1
70°	75.8	77.5	75.5	72.7	76.2	97.2	376.3	466.6	1075.8	1261.2	806.7
72.5°	57.5	57.5	61.0	58.9	56.5	61.0	131.3	147.5	431.8	525.8	291.2
75°	44.5	45.8	48.2	46.2	42.7	36.2	63.1	66.8	130.3	122.3	65.1
77.5°	22.7	23.1	30.7	33.8	31.7	22.1	27.6	30.3	42.4	37.9	24.1
80°	13.8	14.5	17.2	26.5	21.0	11.7	11.4	12.1	20.0	17.2	10.0
82.5°	5.9	6.2	9.6	9.6	8.6	4.5	4.5	4.5	9.6	9.0	4.1
85°	0.0	0.0	1.7	1.4	1.4	1.7	1.7	1.7	2.4	3.4	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0
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°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1041.3	1019.3	989.6	962.8	926.6	906.2	878.0	854.9	835.3	829.1	826.3
5°	1041.7	1003.8	940.4	877.0	799.1	737.7	674.7	624.7	583.7	570.6	567.2
7.5°	1048.6	992.7	890.1	775.0	644.7	537.2	441.1	354.9	314.9	301.5	298.8
10°	1057.9	983.4	831.8	652.6	465.5	327.4	231.9	176.8	150.6	136.1	138.2
12.5°	1069.9	975.9	767.4	520.3	308.1	179.9	127.5	106.8	101.3	98.6	97.2
15°	1086.1	966.9	687.4	389.0	188.8	115.8	98.2	92.7	90.6	89.2	88.9
17.5°	1102.7	956.6	606.1	273.6	125.4	96.1	88.2	85.5	84.1	83.0	82.7
20°	1120.2	939.0	510.7	188.5	98.9	86.5	81.3	78.2	76.5	74.8	74.4
22.5°	1127.8	910.7	419.4	132.0	87.9	79.6	73.1	69.3	67.2	65.8	65.8
25°	1120.6	864.9	324.9	100.3	79.9	72.0	65.5	61.3	59.6	58.2	58.2
27.5°	1101.3	806.0	237.1	83.0	71.3	64.1	57.9	54.1	52.7	52.0	52.0
30°	1079.9	731.5	167.1	71.3	61.7	55.8	50.7	48.2	47.9	47.2	47.2
32.5°	1061.7	661.9	115.1	62.7	54.4	48.6	45.1	44.1	44.5	43.8	44.1
35°	1051.7	593.7	85.5	55.8	48.6	43.1	41.3	41.3	41.3	41.0	41.0
37.5°	1055.8	526.5	69.6	51.0	43.4	39.3	37.6	38.2	38.9	38.9	38.9
40°	1076.5	466.9	61.7	46.5	38.9	35.8	34.5	35.5	36.5	37.2	37.2
42.5°	1102.7	418.7	55.8	42.7	35.8	32.4	31.7	32.7	33.8	34.5	34.5
45°	1119.2	370.1	50.0	37.9	32.7	28.6	28.6	30.0	29.6	30.0	30.0
47.5°	1126.8	331.5	44.1	32.7	27.9	24.8	25.2	25.8	25.2	25.8	25.8
50°	1108.2	292.5	38.9	27.2	23.1	21.7	22.4	22.1	22.1	23.4	23.4
52.5°	1074.1	263.6	34.5	23.1	19.6	19.3	20.0	18.6	19.0	19.0	18.6
55°	1048.9	247.1	30.7	20.0	16.9	17.2	16.9	14.5	13.1	11.7	11.4
57.5°	1036.5	240.5	27.9	17.9	15.2	15.2	13.8	10.0	7.6	5.9	5.2
60°	1033.7	232.6	25.2	15.5	13.4	12.7	10.0	5.9	3.8	2.8	2.4
62.5°	1007.6	213.3	22.7	12.4	11.7	10.3	6.2	3.4	2.1	1.4	1.0
65°	921.8	175.4	20.3	9.6	9.0	7.6	3.8	2.1	1.0	0.3	0.0
67.5°	733.3	124.4	17.9	7.2	6.2	4.8	2.4	1.4	0.3	0.0	0.0
70°	422.8	67.2	14.8	5.2	4.1	3.1	1.7	0.7	0.0	0.0	0.0
72.5°	141.3	31.4	11.4	3.4	3.1	2.4	1.0	0.3	0.0	0.0	0.0
75°	31.0	18.6	7.6	2.4	2.1	1.7	0.7	0.0	0.0	0.0	0.0
77.5°	11.7	13.1	3.8	1.7	1.4	1.0	0.3	0.0	0.0	0.0	0.0
80°	4.5	8.6	1.7	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	3.4	1.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	1.7	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.3	0.3	0.3	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)