

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: P629776

Luminaire Tested: GWS-SA1C-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629776
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3975.5 lumens
Efficiency: N/A
Efficacy: 116.6 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

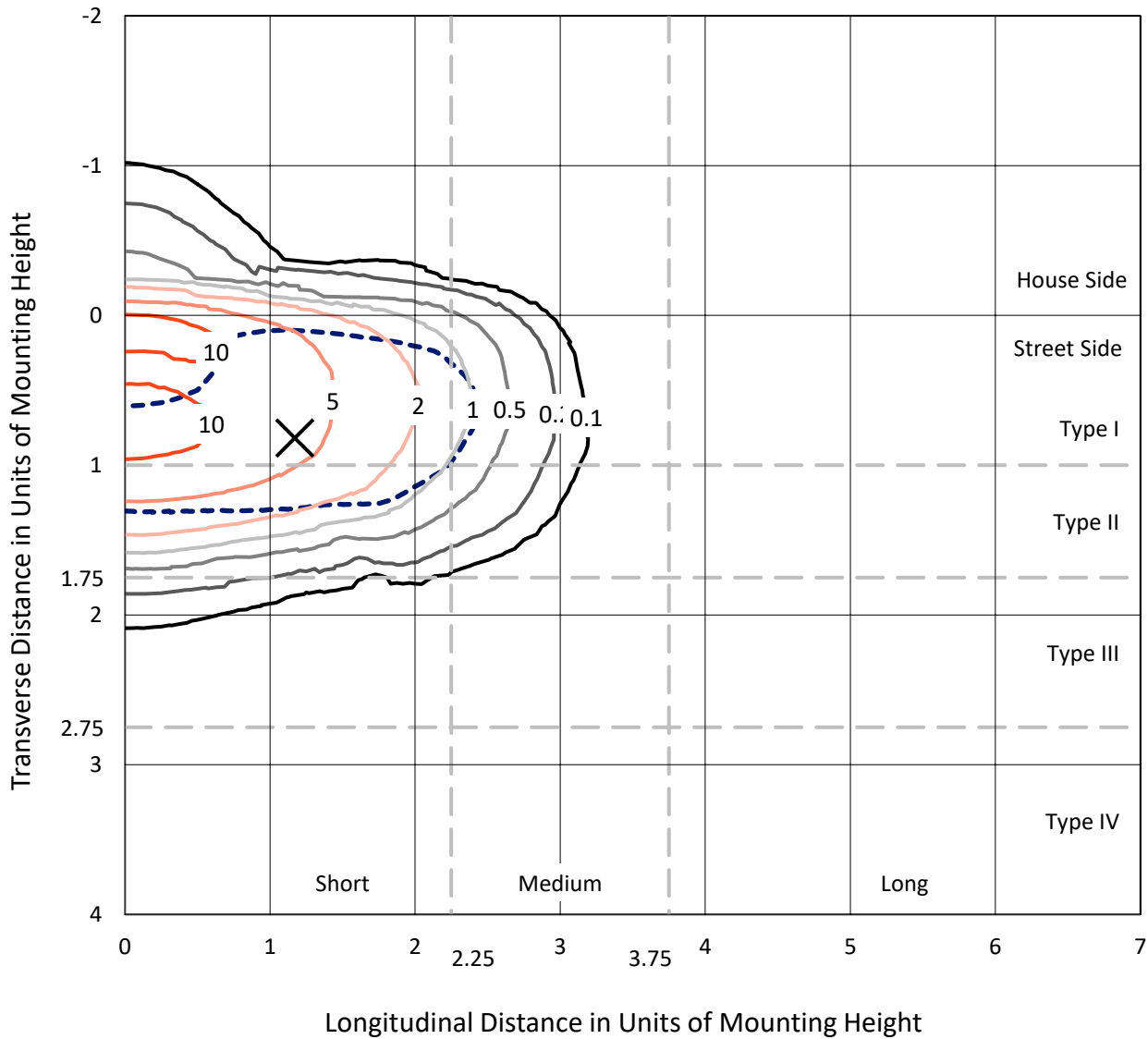
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

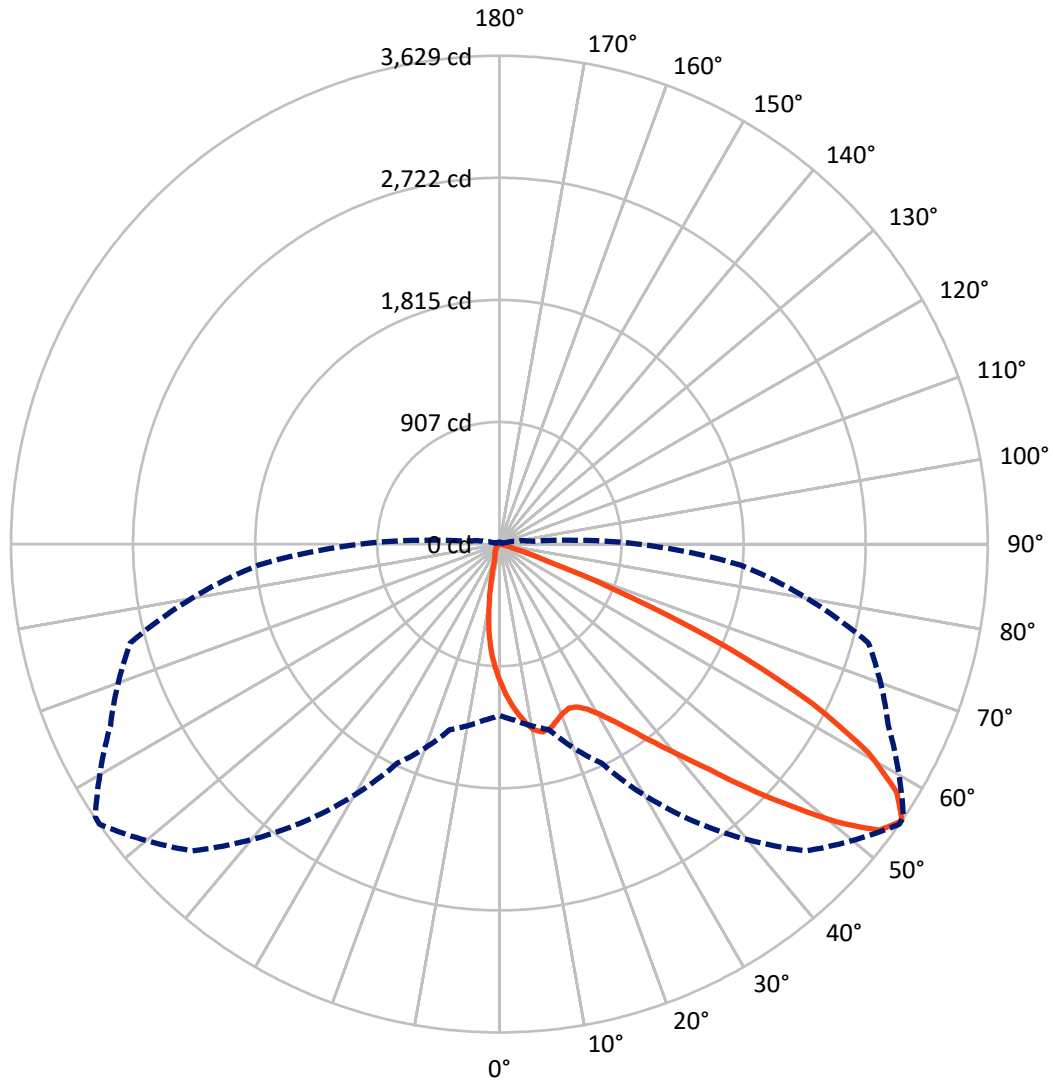
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 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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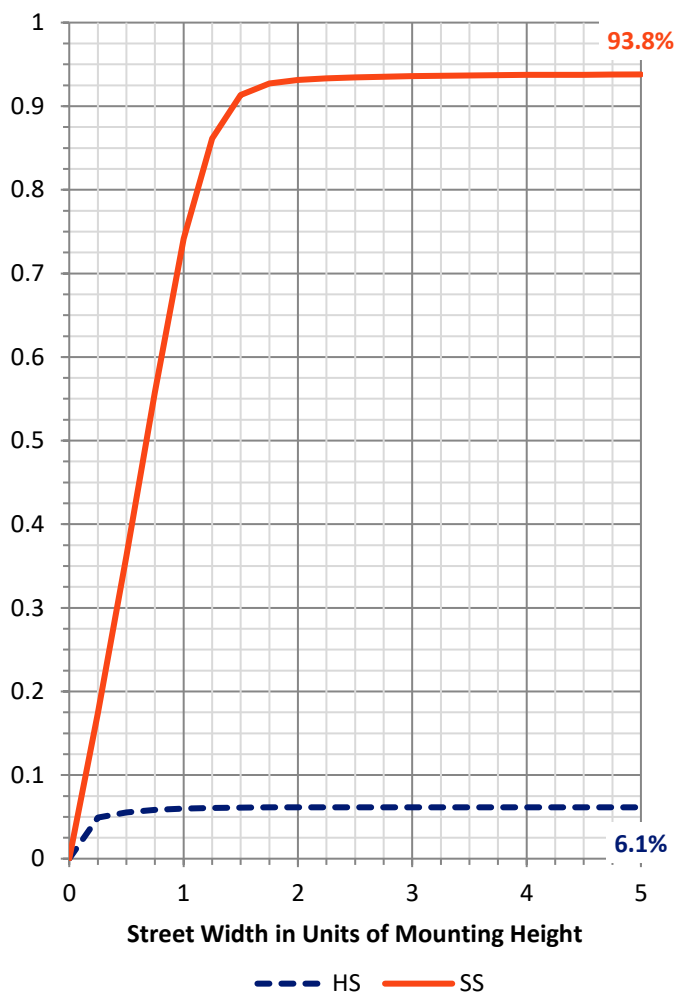
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	245.3	0.0	245.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3730.2	0.0	3730.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	3975.5	0.0	3975.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	2.3
10°-20°	218.8	5.5
20°-30°	364.4	9.2
30°-40°	621.0	15.6
40°-50°	1013.7	25.5
50°-60°	1061.3	26.7
60°-70°	535.3	13.5
70°-80°	67.6	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°	3975.5	100.0
0°-180°	3975.5	100.0

Coefficient of Utilization



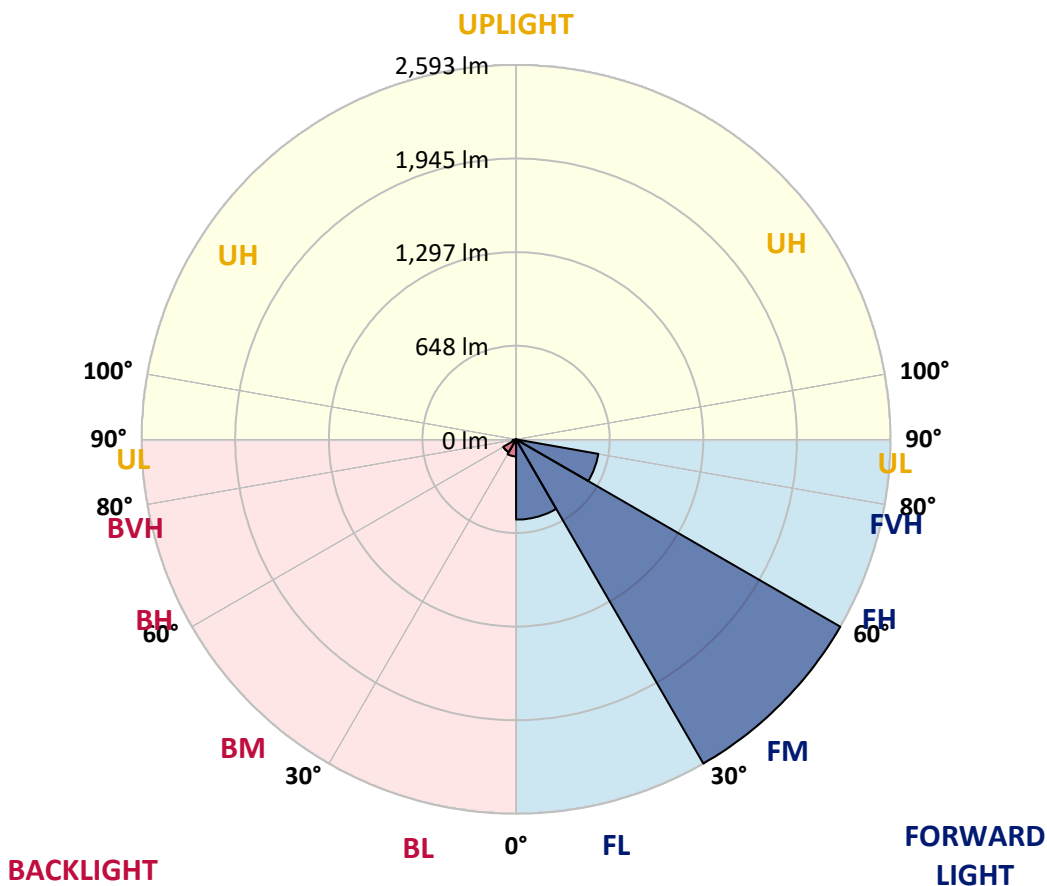
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.1	14.0			
FM (30°-60°)	2593.4	65.2			
FH (60°-80°)	578.3	14.5			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	117.9	3.0	B1/500		
BM (30°-60°)	102.6	2.6	B0/220		
BH (60°-80°)	24.6	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°	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0
2.5°	1197.3	1191.5	1200.4	1190.2	1172.8	1158.2	1139.2	1132.4	1101.8	1072.9	1045.0
5°	1342.8	1344.5	1341.7	1327.5	1303.0	1275.8	1237.4	1228.9	1175.6	1120.5	1061.0
7.5°	1378.8	1377.8	1383.5	1389.0	1384.9	1371.3	1329.5	1321.0	1254.7	1172.2	1085.5
10°	1267.7	1268.3	1280.2	1316.9	1362.5	1409.7	1403.3	1398.5	1333.6	1230.6	1112.7
12.5°	1110.6	1116.8	1129.3	1181.7	1258.8	1366.2	1432.8	1437.6	1406.0	1294.8	1144.6
15°	1042.7	1044.0	1054.2	1085.8	1143.3	1275.8	1420.2	1433.5	1466.5	1359.4	1179.3
17.5°	1041.0	1042.7	1047.1	1061.0	1098.4	1204.8	1379.8	1402.9	1512.0	1428.7	1220.8
20°	1104.9	1103.8	1100.8	1093.3	1109.6	1181.3	1342.4	1367.9	1536.8	1496.4	1262.6
22.5°	1220.8	1219.4	1205.8	1174.9	1161.6	1202.7	1324.1	1347.2	1551.8	1556.5	1296.9
25°	1354.3	1363.8	1338.3	1291.4	1258.8	1257.5	1340.4	1356.7	1564.7	1609.9	1320.3
27.5°	1500.8	1503.9	1482.1	1429.4	1382.2	1345.1	1387.6	1399.9	1579.0	1657.5	1333.6
30°	1661.5	1660.5	1635.7	1574.5	1517.1	1463.7	1467.1	1471.9	1612.3	1711.8	1348.2
32.5°	1862.4	1866.8	1822.6	1739.4	1670.4	1596.6	1571.1	1571.8	1672.4	1781.9	1370.3
35°	2135.3	2124.4	2066.0	1947.4	1829.8	1750.2	1706.7	1703.0	1765.2	1876.0	1408.7
37.5°	2395.3	2396.3	2335.1	2204.6	2056.1	1930.7	1869.2	1859.0	1895.7	2006.5	1472.6
40°	2575.7	2579.1	2553.7	2485.3	2328.0	2150.6	2060.2	2049.7	2064.9	2171.7	1556.2
42.5°	2671.2	2680.8	2687.9	2703.9	2584.6	2425.2	2286.2	2285.2	2269.2	2359.9	1653.0
45°	2675.0	2689.3	2732.8	2841.9	2855.4	2738.5	2587.3	2564.5	2503.0	2561.5	1739.7
47.5°	2527.1	2560.1	2652.6	2868.7	3011.4	3050.2	2900.3	2886.4	2713.7	2720.9	1804.6
50°	2182.5	2216.9	2387.1	2731.1	3050.9	3297.6	3243.9	3215.0	2889.8	2826.2	1835.9
52.5°	1829.1	1860.4	1975.9	2403.4	2887.4	3375.4	3533.5	3499.1	3047.8	2862.9	1823.0
55°	1272.8	1314.6	1427.4	1796.5	2510.8	3223.8	3629.3	3622.2	3188.8	2839.8	1802.9
57.5°	624.0	665.4	777.9	1107.6	1860.0	2814.7	3482.8	3520.5	3273.1	2815.0	1786.6
60°	260.7	277.7	316.4	486.0	1040.6	2127.1	3152.1	3204.5	3221.5	2781.4	1784.9
62.5°	151.2	154.0	158.0	201.5	404.8	1219.4	2614.8	2689.3	2949.9	2736.8	1758.1
65°	114.2	115.2	113.5	123.7	167.2	462.5	1889.2	1990.5	2462.2	2562.8	1652.0
67.5°	93.8	93.8	89.4	91.4	105.0	173.3	1043.0	1184.4	1822.0	2106.4	1364.2
70°	74.8	76.5	74.4	71.7	75.1	95.8	371.1	460.2	1061.0	1243.9	795.6
72.5°	56.8	56.8	60.2	58.1	55.7	60.2	129.5	145.5	425.8	518.6	287.2
75°	43.8	45.2	47.6	45.5	42.1	35.7	62.2	65.9	128.5	120.6	64.2
77.5°	22.4	22.8	30.2	33.3	31.3	21.8	27.2	29.9	41.8	37.4	23.8
80°	13.6	14.3	17.0	26.2	20.7	11.6	11.2	11.9	19.7	17.0	9.9
82.5°	5.8	6.1	9.5	9.5	8.5	4.4	4.4	4.4	9.5	8.8	4.1
85°	0.0	0.0	1.7	1.4	1.4	1.7	1.7	1.7	2.4	3.4	2.0
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°	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0	1027.0
2.5°	1027.0	1005.3	976.1	949.5	913.9	893.8	865.9	843.2	823.8	817.7	815.0
5°	1027.4	990.0	927.5	864.9	788.1	727.6	665.4	616.2	575.7	562.8	559.4
7.5°	1034.2	979.1	877.8	764.3	635.9	529.8	435.0	350.0	310.6	297.4	294.7
10°	1043.3	969.9	820.4	643.7	459.1	322.9	228.7	174.3	148.5	134.2	136.3
12.5°	1055.2	962.5	756.9	513.2	303.8	177.4	125.7	105.4	99.9	97.2	95.8
15°	1071.2	953.6	678.0	383.7	186.2	114.2	96.9	91.4	89.4	88.0	87.7
17.5°	1087.5	943.4	597.8	269.8	123.7	94.8	87.0	84.3	82.9	81.9	81.6
20°	1104.9	926.1	503.7	185.9	97.5	85.3	80.2	77.1	75.4	73.7	73.4
22.5°	1112.3	898.2	413.6	130.2	86.7	78.5	72.0	68.3	66.3	64.9	64.9
25°	1105.2	853.0	320.5	98.9	78.8	71.0	64.6	60.5	58.8	57.4	57.4
27.5°	1086.2	794.9	233.8	81.9	70.3	63.2	57.1	53.4	52.0	51.3	51.3
30°	1065.1	721.5	164.8	70.3	60.8	55.1	50.0	47.6	47.2	46.6	46.6
32.5°	1047.1	652.9	113.5	61.9	53.7	47.9	44.5	43.5	43.8	43.2	43.5
35°	1037.2	585.6	84.3	55.1	47.9	42.5	40.8	40.8	40.8	40.4	40.4
37.5°	1041.3	519.3	68.7	50.3	42.8	38.7	37.0	37.7	38.4	38.4	38.4
40°	1061.7	460.5	60.8	45.9	38.4	35.3	34.0	35.0	36.0	36.7	36.7
42.5°	1087.5	412.9	55.1	42.1	35.3	31.9	31.3	32.3	33.3	34.0	34.0
45°	1103.8	365.0	49.3	37.4	32.3	28.2	28.2	29.6	29.2	29.6	29.6
47.5°	1111.3	326.9	43.5	32.3	27.5	24.5	24.8	25.5	24.8	25.5	25.5
50°	1093.0	288.5	38.4	26.8	22.8	21.4	22.1	21.8	21.8	23.1	23.1
52.5°	1059.3	260.0	34.0	22.8	19.4	19.0	19.7	18.4	18.7	18.7	18.4
55°	1034.5	243.7	30.2	19.7	16.7	17.0	16.7	14.3	12.9	11.6	11.2
57.5°	1022.3	237.2	27.5	17.7	15.0	15.0	13.6	9.9	7.5	5.8	5.1
60°	1019.6	229.4	24.8	15.3	13.3	12.6	9.9	5.8	3.7	2.7	2.4
62.5°	993.7	210.4	22.4	12.2	11.6	10.2	6.1	3.4	2.0	1.4	1.0
65°	909.1	173.0	20.1	9.5	8.8	7.5	3.7	2.0	1.0	0.3	0.0
67.5°	723.2	122.7	17.7	7.1	6.1	4.8	2.4	1.4	0.3	0.0	0.0
70°	417.0	66.3	14.6	5.1	4.1	3.1	1.7	0.7	0.0	0.0	0.0
72.5°	139.3	30.9	11.2	3.4	3.1	2.4	1.0	0.3	0.0	0.0	0.0
75°	30.6	18.4	7.5	2.4	2.0	1.7	0.7	0.0	0.0	0.0	0.0
77.5°	11.6	12.9	3.7	1.7	1.4	1.0	0.3	0.0	0.0	0.0	0.0
80°	4.4	8.5	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)