

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: P629937

Luminaire Tested: GWS-SA1C-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3652.2 lumens
Efficiency: N/A
Efficacy: 107.1 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

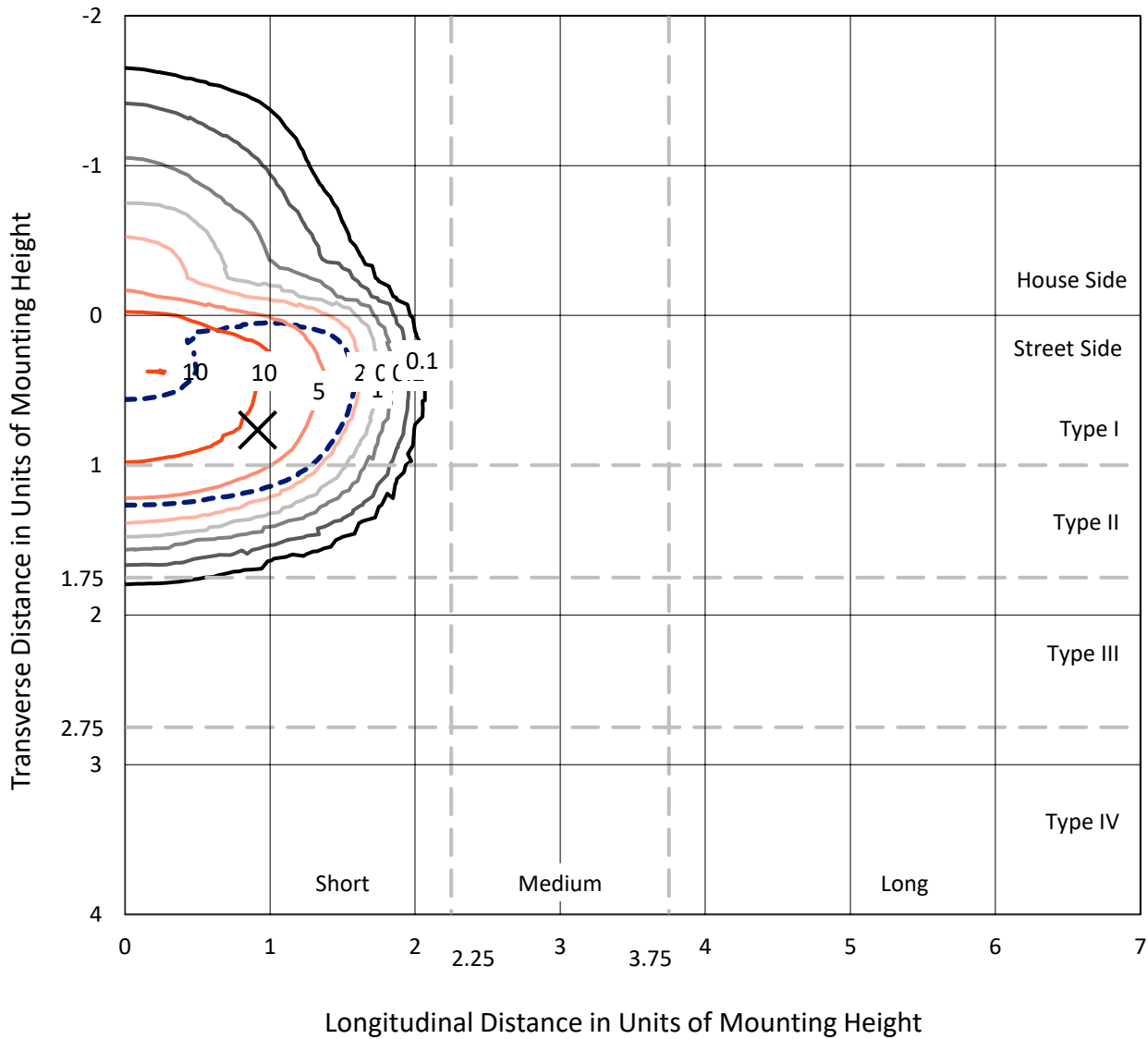
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629937
 CATALOG NUMBER: GWS-SA1C-760-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

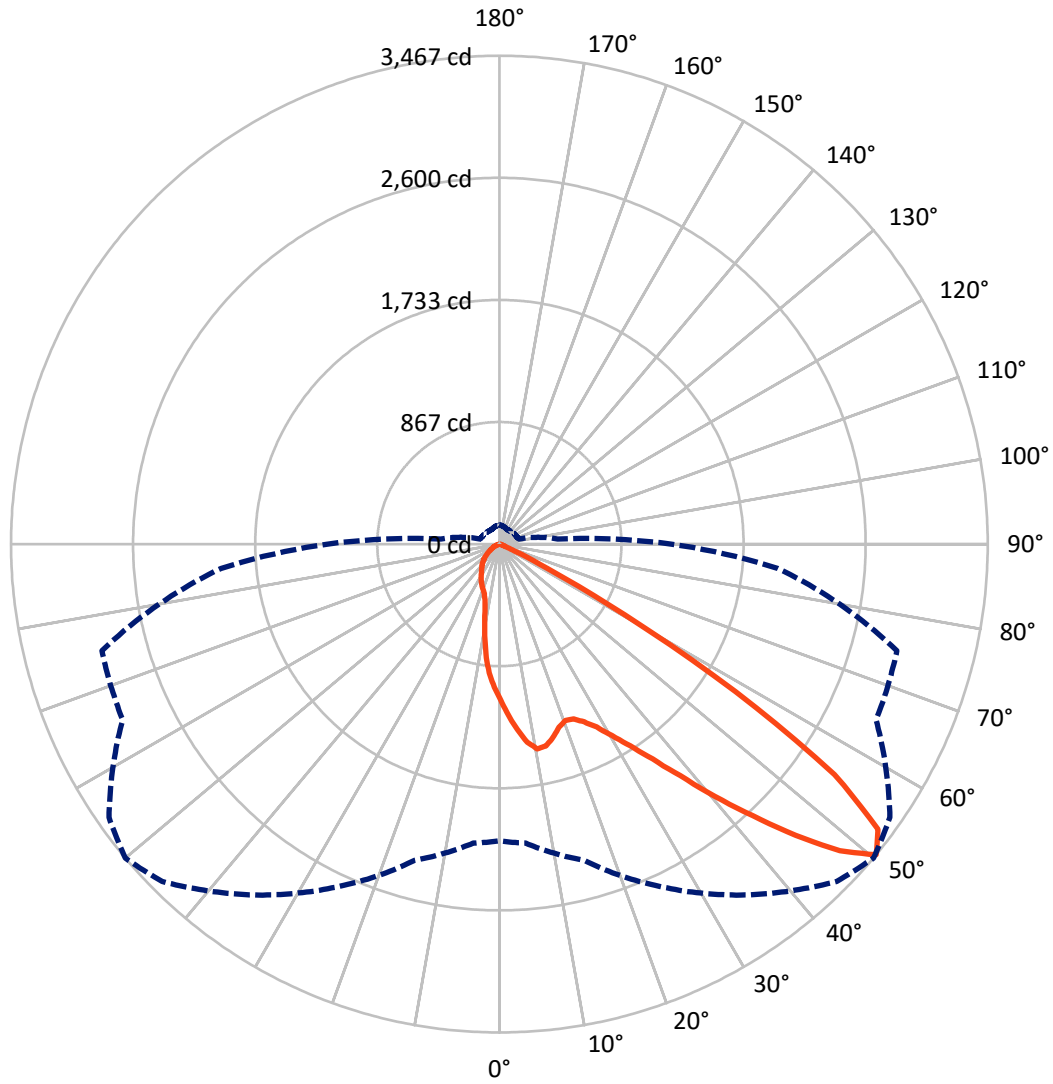
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

REPORT NUMBER: P629937
CATALOG NUMBER: GWS-SA1C-760-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GWS-SA1C-760-U-AFL-W-GRSBK

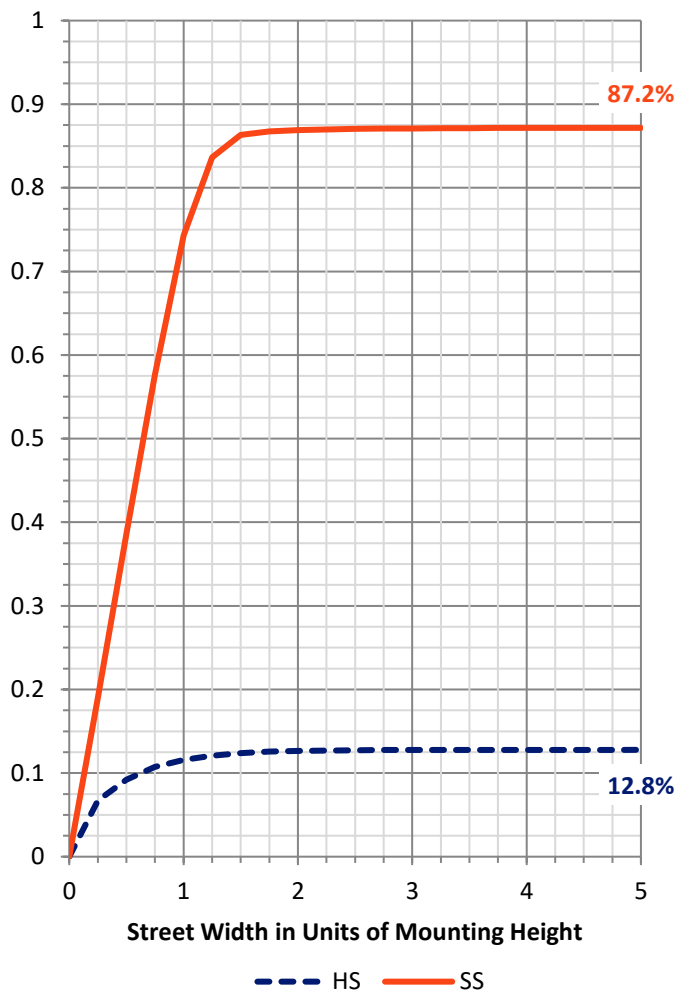
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.2	0.0	469.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3182.9	0.0	3182.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	3652.2	0.0	3652.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	2.8
10°-20°	264.8	7.3
20°-30°	437.1	12.0
30°-40°	721.2	19.7
40°-50°	1141.2	31.2
50°-60°	864.0	23.7
60°-70°	108.1	3.0
70°-80°	12.2	0.3
80°-90°	0.9	0.0
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°	3652.2	100.0
0°-180°	3652.2	100.0

Coefficient of Utilization



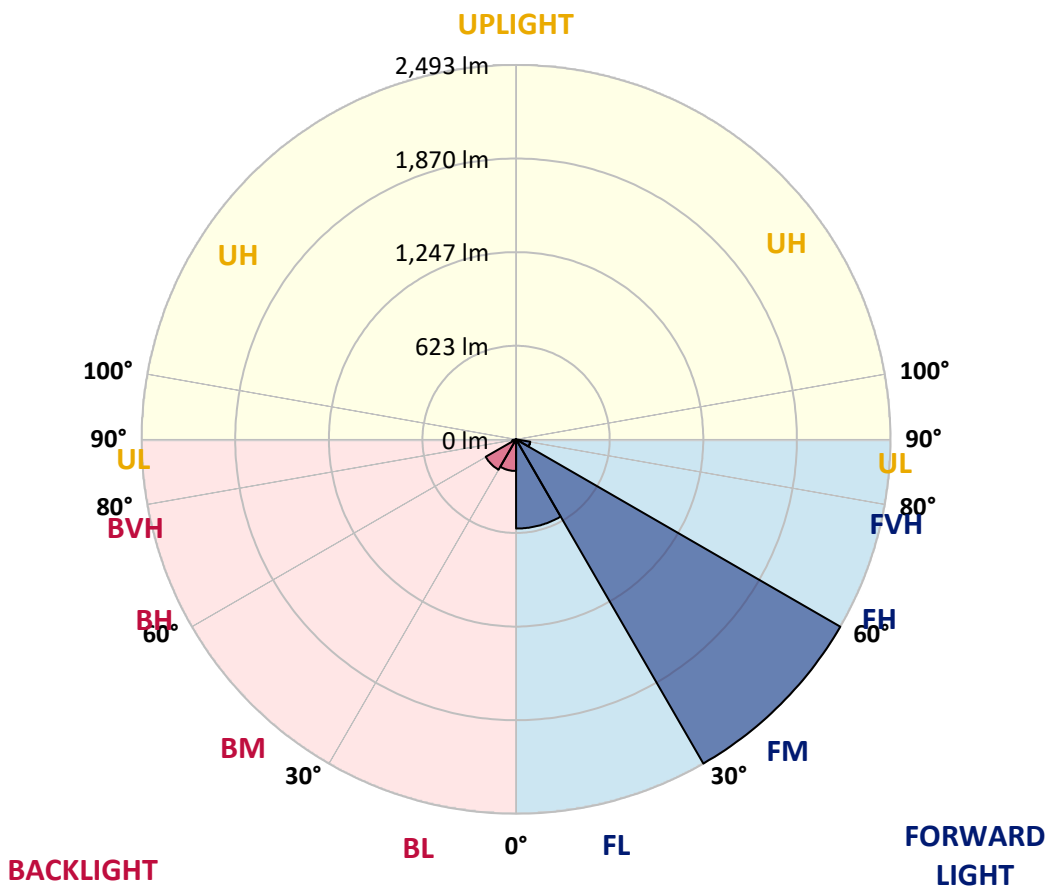
REPORT NUMBER: P629937

CATALOG NUMBER: GWS-SA1C-760-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.9	16.3			
FM (30°-60°)	2493.0	68.3			
FH (60°-80°)	95.6	2.6			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	210.6	5.8	B1/500		
BM (30°-60°)	233.4	6.4	B1/1000		
BH (60°-80°)	24.8	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	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°	50°	55°	65°	75°	85°
0°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1260.8	1270.9	1268.1	1254.9	1240.7	1230.6	1214.9	1210.1	1174.6	1149.9	1123.9
5°	1413.1	1416.2	1412.7	1396.7	1371.7	1347.7	1322.0	1307.0	1247.6	1194.1	1139.5
7.5°	1449.6	1445.7	1452.4	1460.3	1456.9	1446.4	1419.3	1403.0	1332.1	1244.8	1162.1
10°	1335.6	1326.9	1351.5	1392.9	1436.4	1485.4	1478.4	1479.8	1414.5	1308.8	1191.6
12.5°	1184.3	1180.9	1199.3	1247.3	1332.4	1443.7	1470.4	1515.3	1489.9	1378.0	1225.4
15°	1117.9	1119.7	1130.8	1161.0	1222.2	1360.6	1424.9	1505.9	1557.3	1445.1	1262.6
17.5°	1128.0	1134.3	1133.9	1144.0	1181.2	1292.1	1367.2	1476.3	1609.5	1522.2	1305.3
20°	1196.5	1202.8	1193.4	1185.7	1198.2	1274.7	1336.9	1446.4	1644.6	1600.1	1350.5
22.5°	1299.1	1306.4	1284.1	1262.2	1254.2	1303.2	1348.4	1434.3	1671.4	1671.4	1390.8
25°	1423.2	1433.2	1398.8	1359.9	1337.6	1363.4	1397.4	1461.7	1698.8	1735.3	1418.3
27.5°	1561.9	1562.2	1532.7	1488.9	1447.1	1450.3	1470.8	1523.6	1729.1	1804.1	1439.8
30°	1717.9	1719.0	1679.7	1627.2	1574.7	1560.5	1577.8	1617.8	1792.0	1890.7	1469.7
32.5°	1919.6	1924.4	1868.1	1790.9	1722.8	1696.0	1706.1	1748.2	1892.1	1999.2	1514.6
35°	2192.1	2197.3	2114.2	2012.4	1903.9	1863.6	1873.7	1916.1	2037.0	2153.2	1586.2
37.5°	2461.1	2468.1	2384.0	2289.1	2140.3	2073.5	2084.0	2124.3	2254.7	2365.9	1700.9
40°	2647.1	2656.5	2630.4	2566.5	2428.5	2340.9	2353.4	2368.0	2494.2	2620.4	1849.7
42.5°	2745.1	2758.4	2769.5	2802.2	2729.5	2656.2	2635.0	2636.0	2737.8	2879.7	2004.4
45°	2751.1	2763.9	2820.9	2947.1	3002.4	2987.1	2948.5	2922.4	2923.8	3052.4	2101.0
47.5°	2559.9	2583.9	2690.6	2937.7	3145.6	3272.5	3253.0	3191.1	3002.0	3063.9	2090.6
50°	2106.9	2130.6	2324.5	2680.1	3041.3	3386.5	3466.8	3383.7	2950.9	2921.0	1983.2
52.5°	1530.2	1532.7	1658.5	2073.9	2618.6	3176.2	3365.3	3357.3	2873.1	2747.9	1836.5
55°	726.9	718.2	859.7	1170.4	1811.1	2568.9	2887.7	2978.1	2762.5	2622.8	1722.8
57.5°	211.7	215.9	278.8	456.8	905.9	1641.8	1977.6	2145.9	2267.5	2156.3	1336.2
60°	94.9	95.2	106.0	139.0	301.7	763.7	1022.3	1230.6	1355.7	1256.3	662.9
62.5°	68.8	69.2	73.3	78.6	102.5	258.6	383.4	511.0	520.4	340.7	167.9
65°	57.4	57.4	58.1	58.1	61.5	92.5	116.5	150.2	126.5	93.9	65.7
67.5°	46.2	46.6	47.3	47.3	46.2	46.2	50.1	54.9	58.7	72.7	60.5
70°	36.2	35.8	35.8	36.2	35.1	29.9	32.3	36.8	40.3	56.7	52.5
72.5°	28.2	28.5	28.2	26.8	24.3	17.7	19.1	24.0	25.7	35.5	35.5
75°	21.2	21.6	20.2	15.3	10.1	5.6	7.3	11.8	14.9	17.4	12.9
77.5°	2.8	2.8	2.1	2.1	1.7	2.1	2.1	2.8	4.2	4.2	3.1
80°	0.3	0.3	0.3	0.7	1.0	1.4	1.4	1.4	1.4	1.7	1.7
82.5°	0.3	0.3	0.3	0.3	1.0	1.0	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.0	1.4	1.4	1.4
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°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1108.2	1088.0	1063.7	1047.0	1023.4	1007.7	985.5	970.6	957.7	947.6	953.2
5°	1108.6	1076.6	1026.9	984.5	938.2	895.8	850.3	814.5	782.1	767.5	775.5
7.5°	1115.5	1069.6	993.5	918.1	829.4	741.8	659.8	593.0	560.0	544.4	549.2
10°	1129.1	1066.5	956.3	831.2	687.2	567.7	488.1	442.9	424.4	414.7	416.4
12.5°	1141.6	1064.4	908.0	716.8	542.3	440.4	399.1	392.8	396.6	397.0	396.6
15°	1158.6	1060.6	848.2	599.3	433.8	380.6	381.7	390.7	399.8	402.5	401.8
17.5°	1176.7	1054.7	771.0	486.7	368.1	363.3	375.4	387.6	396.6	398.0	398.4
20°	1195.5	1042.5	683.1	397.3	337.5	350.1	363.6	372.6	379.3	381.3	382.0
22.5°	1204.2	1016.8	581.6	333.4	317.0	333.7	343.8	355.6	357.7	350.1	351.4
25°	1199.6	973.3	482.5	290.3	296.5	313.2	328.2	322.2	313.6	308.0	309.7
27.5°	1185.4	915.6	385.5	258.6	274.6	295.8	297.6	291.0	289.6	285.0	286.4
30°	1170.1	849.2	310.1	233.3	252.4	274.6	269.4	271.8	272.2	267.0	268.7
32.5°	1160.7	779.7	246.8	216.2	238.1	242.3	252.7	257.6	257.9	245.8	247.9
35°	1163.8	711.2	208.9	202.3	224.9	223.9	238.5	241.2	221.1	204.4	206.1
37.5°	1189.2	648.0	187.4	191.5	202.0	210.0	221.1	202.7	198.1	190.5	191.5
40°	1236.5	594.1	174.5	184.9	186.3	199.2	182.2	184.6	184.9	180.1	181.1
42.5°	1291.8	549.2	166.9	181.1	177.6	179.7	162.7	167.6	172.8	170.7	171.0
45°	1319.6	505.4	160.3	167.9	168.9	149.1	145.3	150.5	157.1	158.2	158.5
47.5°	1294.9	463.7	153.3	148.8	155.7	135.9	131.4	133.1	140.8	145.0	145.7
50°	1219.4	415.8	142.9	131.7	127.9	122.0	117.8	118.2	126.9	134.2	135.6
52.5°	1113.4	365.7	125.8	111.6	102.9	107.4	108.5	106.4	114.4	121.7	123.1
55°	1010.5	303.1	99.8	90.7	82.7	92.5	95.2	92.5	94.9	99.8	100.1
57.5°	711.6	171.4	76.5	75.1	68.5	79.3	83.8	79.6	75.4	78.6	79.3
60°	329.9	89.7	58.7	58.7	57.0	68.1	75.8	69.9	61.9	63.3	64.3
62.5°	103.2	56.7	43.1	40.7	46.6	58.1	64.3	58.4	49.0	49.0	50.4
65°	58.4	48.7	34.1	31.3	37.9	46.6	50.4	44.1	35.8	35.1	35.1
67.5°	54.2	46.2	30.2	25.4	26.8	29.9	31.3	27.1	24.7	24.3	24.7
70°	44.8	38.6	24.3	17.4	16.3	16.0	16.7	15.6	14.9	15.3	16.3
72.5°	27.8	23.3	15.3	10.4	9.0	8.7	8.7	8.7	8.3	8.3	8.3
75°	10.1	8.7	7.0	5.2	4.5	4.2	4.2	4.5	4.2	3.8	3.5
77.5°	3.1	2.8	2.8	2.8	2.4	2.1	1.7	1.7	1.4	1.0	1.0
80°	1.7	1.7	1.7	1.7	1.4	1.4	1.0	0.7	0.3	0.3	0.0
82.5°	1.7	1.7	1.7	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	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)