

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: P629664

Luminaire Tested: GWS-SA1C-727-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629664
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-727-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) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.4 lumens
Efficiency: N/A
Efficacy: 88.8 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

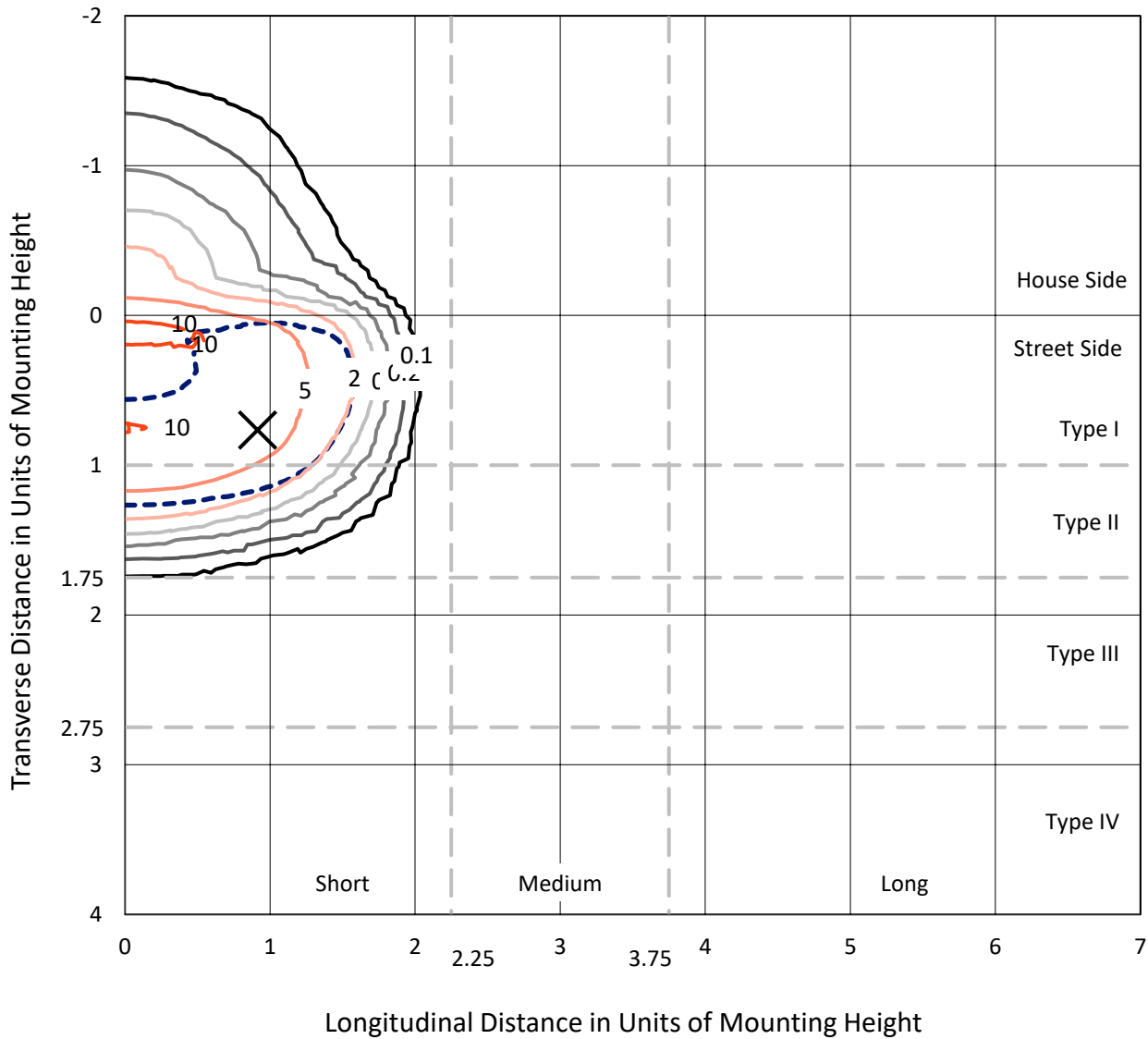
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

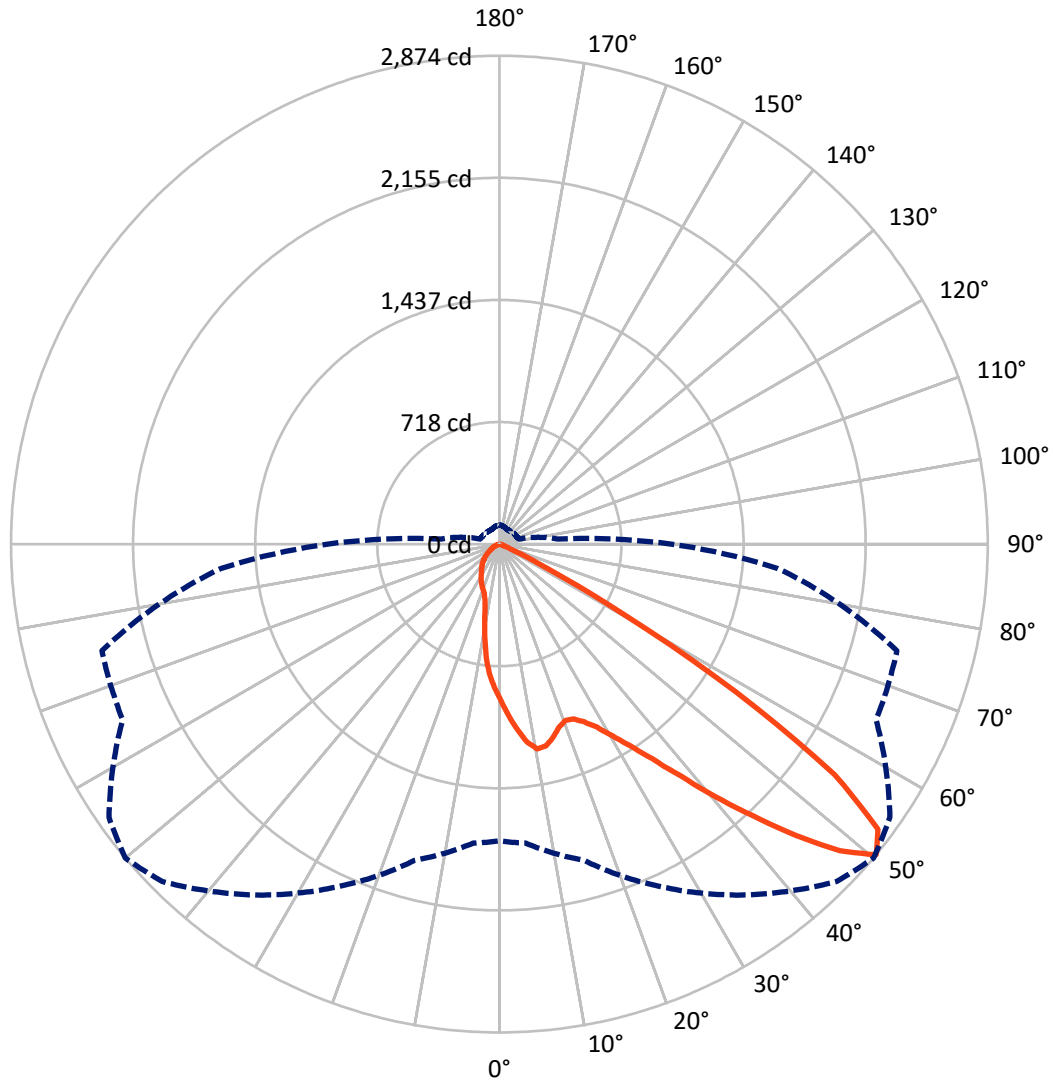
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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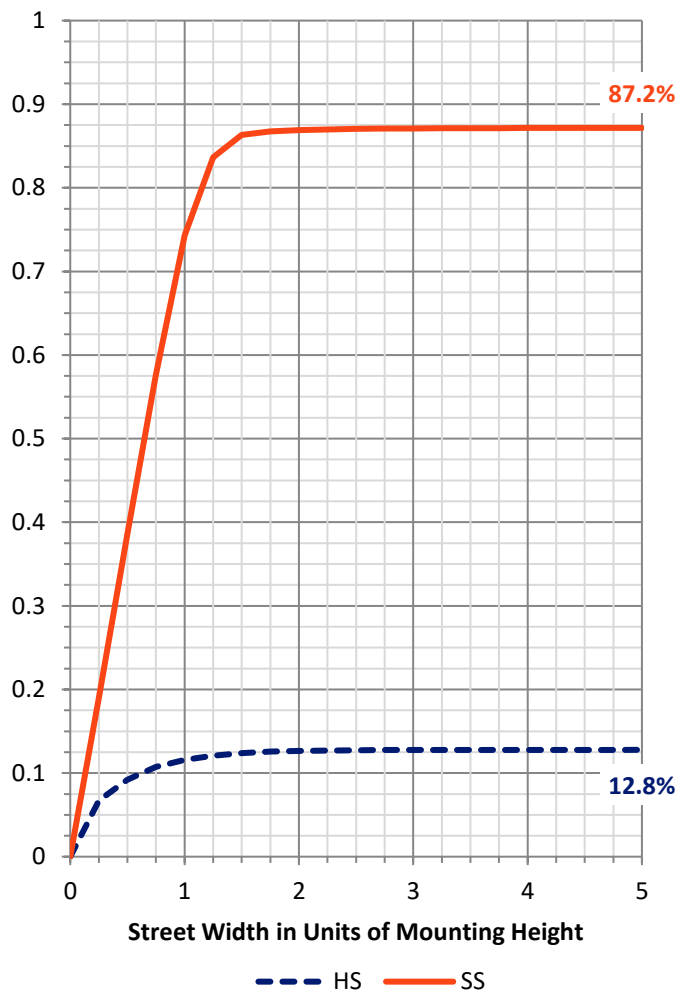
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	389.0	0.0	389.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2638.4	0.0	2638.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	3027.4	0.0	3027.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	2.8
10°-20°	219.5	7.3
20°-30°	362.3	12.0
30°-40°	597.8	19.7
40°-50°	945.9	31.2
50°-60°	716.2	23.7
60°-70°	89.6	3.0
70°-80°	10.1	0.3
80°-90°	0.8	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°	3027.4	100.0
0°-180°	3027.4	100.0

Coefficient of Utilization



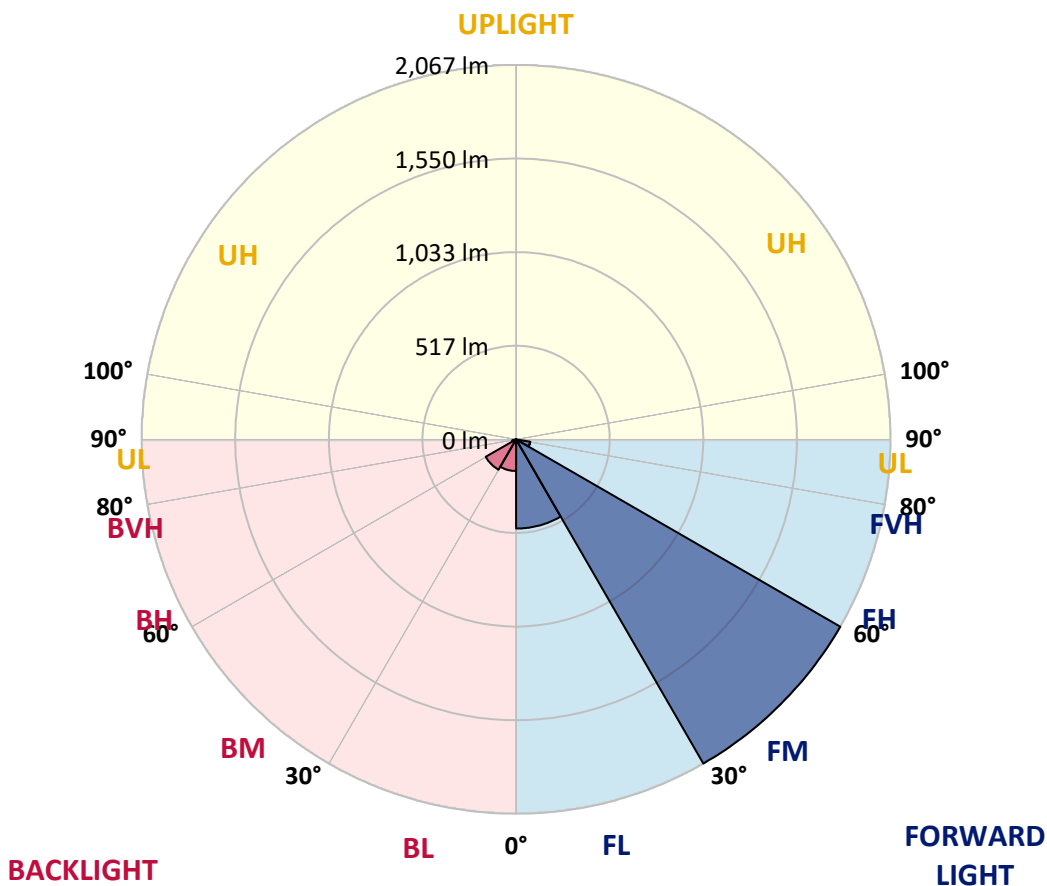
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.3	16.3			
FM (30°-60°)	2066.5	68.3			
FH (60°-80°)	79.2	2.6			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	174.6	5.8	B1/500		
BM (30°-60°)	193.4	6.4	B0/220		
BH (60°-80°)	20.5	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	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°	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2
2.5°	1045.1	1053.5	1051.2	1040.2	1028.4	1020.1	1007.1	1003.1	973.7	953.2	931.6
5°	1171.3	1173.9	1171.0	1157.8	1137.0	1117.2	1095.8	1083.4	1034.2	989.8	944.6
7.5°	1201.6	1198.4	1203.9	1210.5	1207.6	1199.0	1176.5	1163.0	1104.2	1031.9	963.3
10°	1107.1	1099.9	1120.3	1154.6	1190.6	1231.3	1225.5	1226.7	1172.5	1084.9	987.8
12.5°	981.7	978.8	994.1	1033.9	1104.5	1196.7	1218.9	1256.0	1235.0	1142.2	1015.7
15°	926.7	928.1	937.4	962.4	1013.1	1127.8	1181.1	1248.3	1290.9	1197.8	1046.6
17.5°	935.0	940.2	939.9	948.3	979.1	1071.1	1133.3	1223.8	1334.1	1261.8	1082.0
20°	991.8	997.0	989.2	982.9	993.3	1056.6	1108.2	1199.0	1363.2	1326.4	1119.5
22.5°	1076.8	1082.9	1064.4	1046.3	1039.6	1080.3	1117.7	1188.9	1385.4	1385.4	1152.9
25°	1179.7	1188.0	1159.5	1127.2	1108.8	1130.1	1158.4	1211.7	1408.2	1438.4	1175.7
27.5°	1294.7	1294.9	1270.5	1234.1	1199.6	1202.2	1219.2	1263.0	1433.3	1495.5	1193.5
30°	1424.0	1424.9	1392.3	1348.8	1305.3	1293.5	1307.9	1341.1	1485.4	1567.2	1218.3
32.5°	1591.2	1595.2	1548.5	1484.5	1428.1	1405.9	1414.2	1449.1	1568.4	1657.2	1255.5
35°	1817.1	1821.4	1752.5	1668.1	1578.2	1544.8	1553.1	1588.3	1688.6	1784.8	1314.8
37.5°	2040.1	2045.9	1976.1	1897.5	1774.1	1718.8	1727.5	1760.9	1868.9	1961.1	1409.9
40°	2194.3	2202.0	2180.4	2127.4	2013.0	1940.4	1950.8	1962.9	2067.5	2172.1	1533.2
42.5°	2275.5	2286.5	2295.7	2322.8	2262.6	2201.8	2184.2	2185.0	2269.5	2387.0	1661.5
45°	2280.4	2291.1	2338.3	2442.9	2488.8	2476.1	2444.1	2422.5	2423.6	2530.2	1741.6
47.5°	2121.9	2141.8	2230.3	2435.2	2607.5	2712.6	2696.5	2645.2	2488.5	2539.8	1732.9
50°	1746.5	1766.1	1926.9	2221.6	2521.0	2807.2	2873.7	2804.9	2446.1	2421.3	1643.9
52.5°	1268.4	1270.5	1374.8	1719.1	2170.6	2632.8	2789.6	2783.0	2381.6	2277.8	1522.3
55°	602.5	595.3	712.6	970.2	1501.3	2129.4	2393.7	2468.6	2289.9	2174.1	1428.1
57.5°	175.5	178.9	231.1	378.6	750.9	1360.9	1639.3	1778.8	1879.6	1787.4	1107.6
60°	78.7	79.0	87.9	115.3	250.1	633.1	847.4	1020.1	1123.8	1041.4	549.5
62.5°	57.1	57.3	60.8	65.1	85.0	214.4	317.8	423.6	431.4	282.4	139.2
65°	47.5	47.5	48.1	48.1	51.0	76.6	96.5	124.5	104.9	77.8	54.5
67.5°	38.3	38.6	39.2	39.2	38.3	38.3	41.5	45.5	48.7	60.2	50.1
70°	30.0	29.7	29.7	30.0	29.1	24.8	26.8	30.5	33.4	47.0	43.5
72.5°	23.3	23.6	23.3	22.2	20.2	14.7	15.8	19.9	21.3	29.4	29.4
75°	17.6	17.9	16.7	12.7	8.4	4.6	6.1	9.8	12.4	14.4	10.7
77.5°	2.3	2.3	1.7	1.7	1.4	1.7	1.7	2.3	3.5	3.5	2.6
80°	0.3	0.3	0.3	0.6	0.9	1.2	1.2	1.2	1.2	1.4	1.4
82.5°	0.3	0.3	0.3	0.3	0.9	0.9	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.3	0.6	0.9	0.9	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.3	0.6	0.9	0.9	0.9	1.2	1.2	1.2
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°	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2
2.5°	918.6	901.9	881.7	867.9	848.3	835.3	816.9	804.5	793.9	785.5	790.1
5°	918.9	892.4	851.2	816.0	777.7	742.6	704.8	675.1	648.3	636.2	642.9
7.5°	924.7	886.6	823.5	761.0	687.5	614.9	546.9	491.6	464.2	451.2	455.3
10°	935.9	884.0	792.7	689.0	569.7	470.5	404.6	367.1	351.8	343.8	345.2
12.5°	946.3	882.3	752.6	594.2	449.5	365.1	330.8	325.6	328.8	329.1	328.8
15°	960.4	879.1	703.1	496.8	359.6	315.5	316.4	323.9	331.4	333.7	333.1
17.5°	975.4	874.2	639.1	403.4	305.2	301.1	311.2	321.3	328.8	329.9	330.2
20°	990.9	864.2	566.2	329.4	279.8	290.2	301.4	308.9	314.4	316.1	316.7
22.5°	998.2	842.8	482.1	276.3	262.8	276.6	285.0	294.8	296.5	290.2	291.3
25°	994.4	806.8	400.0	240.6	245.8	259.6	272.0	267.1	259.9	255.3	256.7
27.5°	982.6	759.0	319.6	214.4	227.6	245.2	246.7	241.2	240.0	236.3	237.4
30°	969.9	704.0	257.0	193.3	209.2	227.6	223.3	225.3	225.6	221.3	222.7
32.5°	962.1	646.3	204.6	179.2	197.4	200.8	209.5	213.5	213.8	203.7	205.5
35°	964.7	589.6	173.2	167.7	186.4	185.6	197.7	200.0	183.3	169.4	170.9
37.5°	985.8	537.1	155.3	158.8	167.4	174.0	183.3	168.0	164.2	157.9	158.8
40°	1024.9	492.4	144.7	153.3	154.4	165.1	151.0	153.0	153.3	149.3	150.1
42.5°	1070.8	455.3	138.3	150.1	147.2	149.0	134.9	138.9	143.2	141.5	141.8
45°	1093.8	419.0	132.8	139.2	140.0	123.6	120.4	124.8	130.2	131.1	131.4
47.5°	1073.4	384.4	127.1	123.3	129.1	112.7	108.9	110.4	116.7	120.2	120.7
50°	1010.8	344.6	118.4	109.2	106.0	101.1	97.7	98.0	105.2	111.2	112.4
52.5°	922.9	303.1	104.3	92.5	85.3	89.0	89.9	88.2	94.8	100.9	102.0
55°	837.7	251.3	82.7	75.2	68.6	76.6	79.0	76.6	78.7	82.7	83.0
57.5°	589.8	142.1	63.4	62.2	56.8	65.7	69.4	66.0	62.5	65.1	65.7
60°	273.5	74.3	48.7	48.7	47.3	56.5	62.8	57.9	51.3	52.4	53.3
62.5°	85.6	47.0	35.7	33.7	38.6	48.1	53.3	48.4	40.6	40.6	41.8
65°	48.4	40.3	28.2	25.9	31.4	38.6	41.8	36.6	29.7	29.1	29.1
67.5°	45.0	38.3	25.1	21.0	22.2	24.8	25.9	22.5	20.5	20.2	20.5
70°	37.2	32.0	20.2	14.4	13.5	13.3	13.8	13.0	12.4	12.7	13.5
72.5°	23.1	19.3	12.7	8.6	7.5	7.2	7.2	7.2	6.9	6.9	6.9
75°	8.4	7.2	5.8	4.3	3.7	3.5	3.5	3.7	3.5	3.2	2.9
77.5°	2.6	2.3	2.3	2.3	2.0	1.7	1.4	1.4	1.2	0.9	0.9
80°	1.4	1.4	1.4	1.4	1.2	1.2	0.9	0.6	0.3	0.3	0.0
82.5°	1.4	1.4	1.4	1.2	1.2	1.2	0.9	0.6	0.3	0.0	0.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.3	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	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)