

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: P629389

Luminaire Tested: GWS-SA1B-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629389
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-SA1B-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2761.1 lumens
Efficiency: N/A
Efficacy: 110.4 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

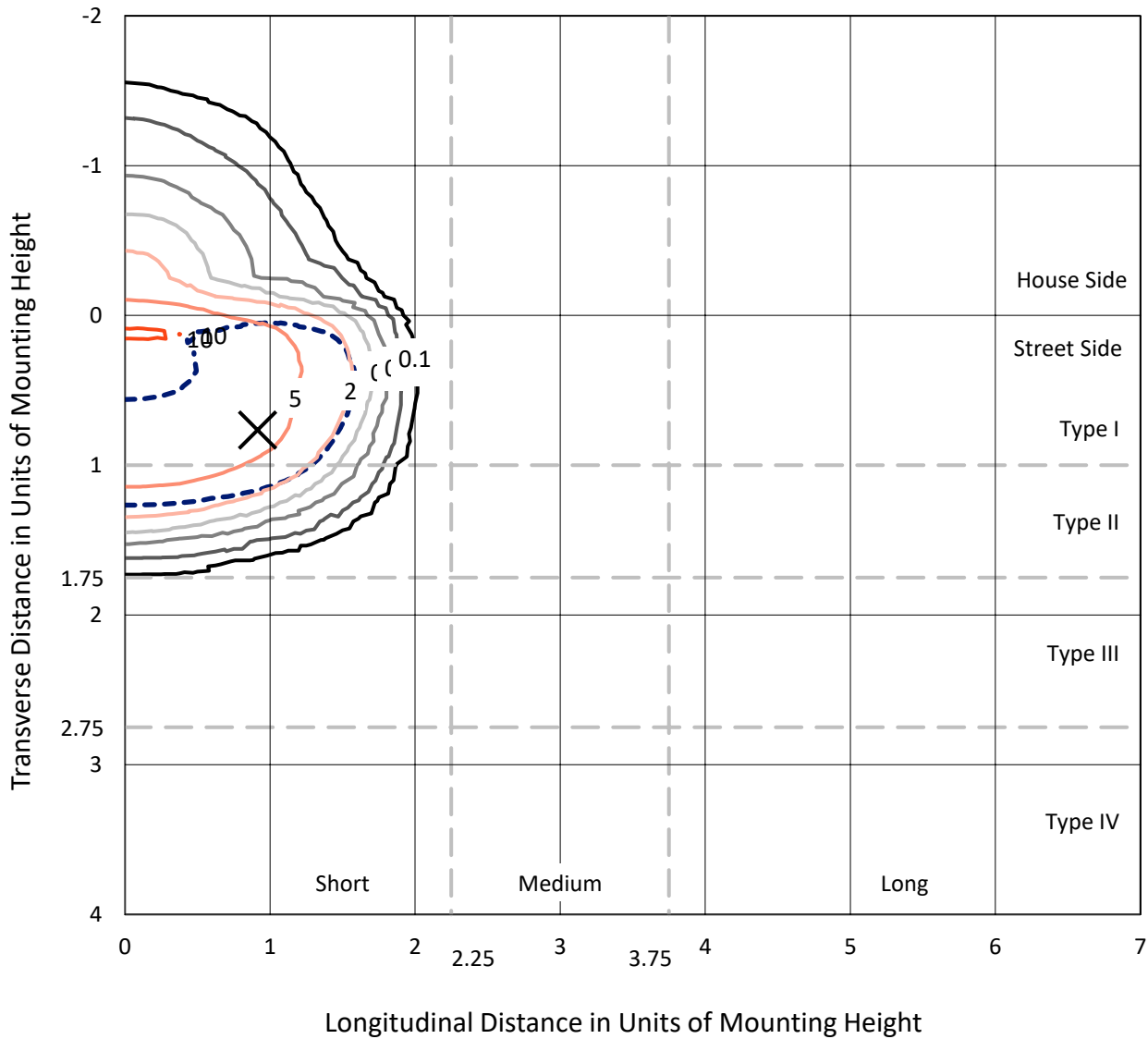
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

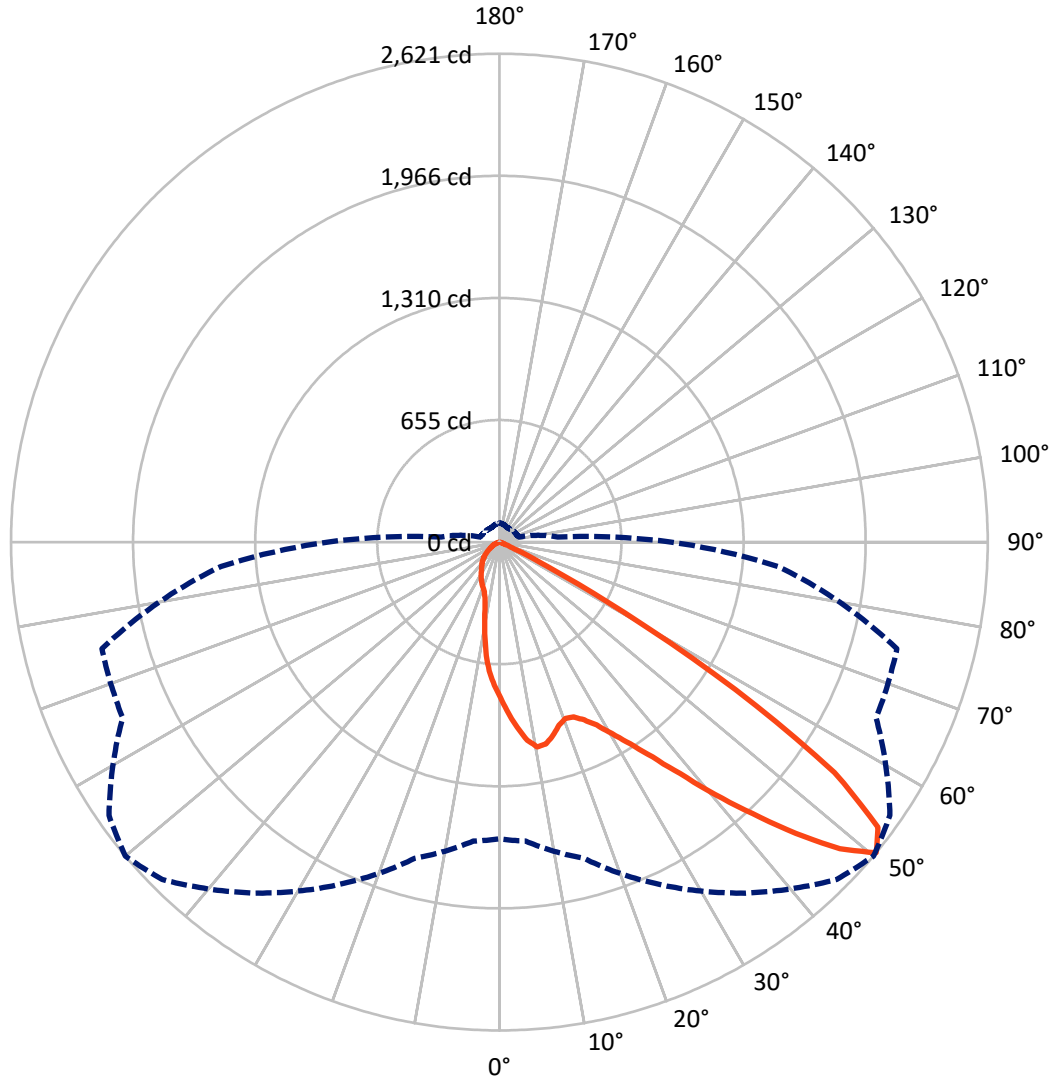
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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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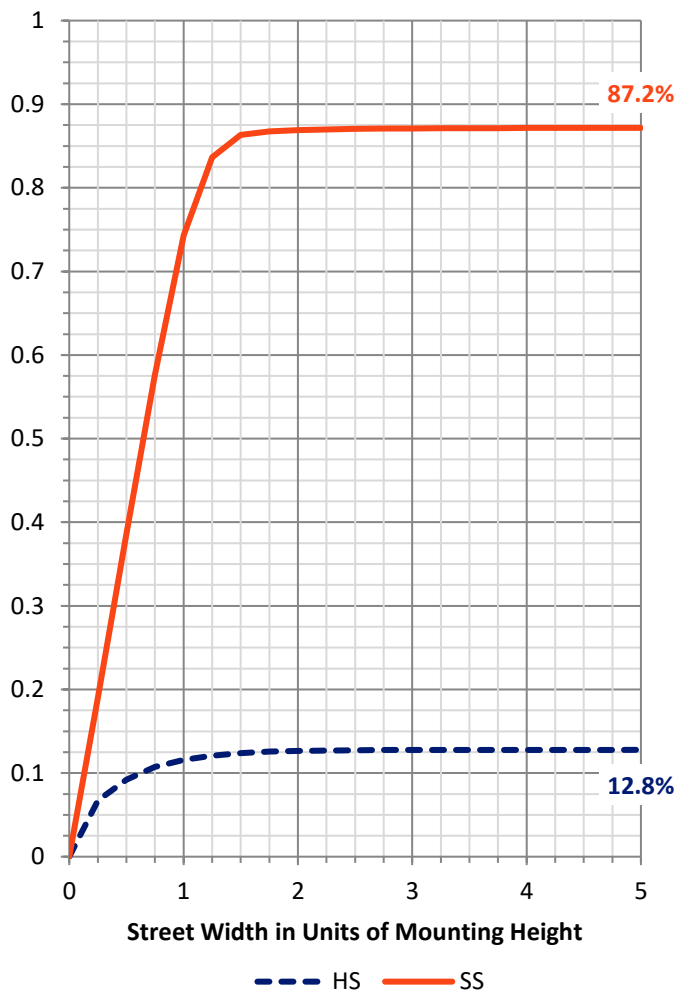
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	354.8	0.0	354.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2406.4	0.0	2406.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	2761.1	0.0	2761.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	2.8
10°-20°	200.2	7.3
20°-30°	330.4	12.0
30°-40°	545.3	19.7
40°-50°	862.7	31.2
50°-60°	653.2	23.7
60°-70°	81.8	3.0
70°-80°	9.3	0.3
80°-90°	0.7	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°	2761.1	100.0
0°-180°	2761.1	100.0

Coefficient of Utilization



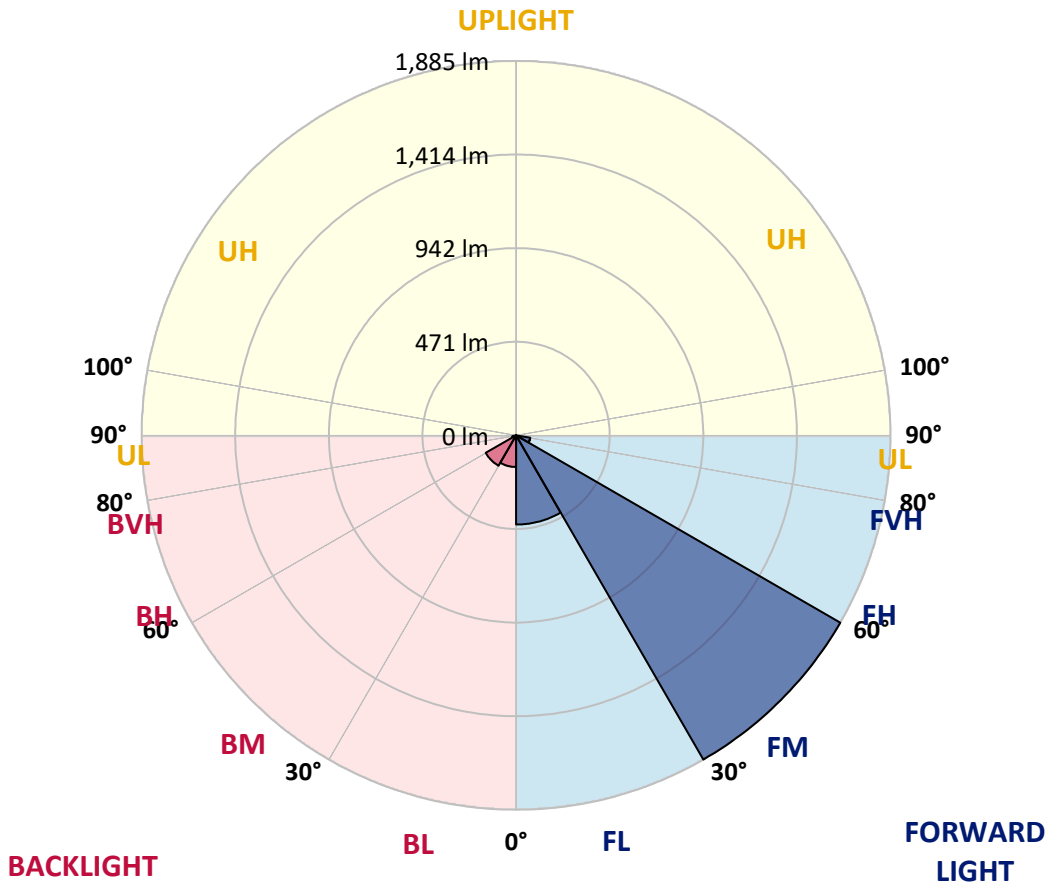
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.0	16.3			
FM (30°-60°)	1884.7	68.3			
FH (60°-80°)	72.3	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	159.2	5.8	B1/500		
BM (30°-60°)	176.4	6.4	B0/220		
BH (60°-80°)	18.7	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°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	953.2	960.8	958.7	948.7	937.9	930.3	918.5	914.8	888.0	869.4	849.6
5°	1068.3	1070.7	1068.0	1055.9	1037.0	1018.9	999.4	988.1	943.2	902.7	861.5
7.5°	1095.9	1093.0	1098.0	1104.0	1101.4	1093.5	1073.0	1060.7	1007.1	941.1	878.6
10°	1009.7	1003.1	1021.8	1053.1	1085.9	1123.0	1117.7	1118.8	1069.3	989.5	900.9
12.5°	895.4	892.7	906.7	942.9	1007.3	1091.4	1111.7	1145.6	1126.4	1041.8	926.4
15°	845.2	846.5	854.9	877.8	924.0	1028.6	1077.2	1138.5	1177.4	1092.5	954.5
17.5°	852.8	857.5	857.3	864.9	893.0	976.8	1033.6	1116.1	1216.8	1150.8	986.8
20°	904.6	909.3	902.2	896.4	905.9	963.7	1010.7	1093.5	1243.3	1209.7	1021.0
22.5°	982.1	987.6	970.8	954.2	948.2	985.3	1019.4	1084.3	1263.6	1263.6	1051.5
25°	1075.9	1083.5	1057.5	1028.1	1011.3	1030.7	1056.5	1105.1	1284.3	1311.9	1072.2
27.5°	1180.8	1181.0	1158.7	1125.6	1094.1	1096.4	1111.9	1151.9	1307.2	1364.0	1088.5
30°	1298.8	1299.6	1269.9	1230.2	1190.5	1179.7	1192.9	1223.1	1354.8	1429.4	1111.1
32.5°	1451.2	1454.9	1412.3	1354.0	1302.5	1282.2	1289.8	1321.6	1430.4	1511.4	1145.0
35°	1657.2	1661.2	1598.4	1521.4	1439.4	1408.9	1416.5	1448.6	1540.0	1627.8	1199.2
37.5°	1860.6	1865.9	1802.3	1730.6	1618.1	1567.6	1575.5	1606.0	1704.5	1788.6	1285.9
40°	2001.2	2008.3	1988.6	1940.3	1835.9	1769.7	1779.2	1790.2	1885.6	1981.0	1398.4
42.5°	2075.4	2085.3	2093.8	2118.5	2063.5	2008.1	1992.1	1992.8	2069.8	2177.1	1515.3
45°	2079.8	2089.6	2132.7	2228.0	2269.8	2258.3	2229.1	2209.4	2210.4	2307.7	1588.4
47.5°	1935.3	1953.4	2034.1	2221.0	2378.1	2474.0	2459.3	2412.5	2269.6	2316.4	1580.5
50°	1592.9	1610.7	1757.4	2026.2	2299.3	2560.2	2620.9	2558.1	2230.9	2208.3	1499.3
52.5°	1156.9	1158.7	1253.8	1567.9	1979.7	2401.2	2544.2	2538.2	2172.1	2077.5	1388.4
55°	549.5	543.0	649.9	884.9	1369.2	1942.1	2183.1	2251.4	2088.5	1982.9	1302.5
57.5°	160.0	163.2	210.8	345.3	684.9	1241.2	1495.1	1622.3	1714.3	1630.2	1010.2
60°	71.7	72.0	80.2	105.1	228.1	577.4	772.9	930.3	1024.9	949.8	501.2
62.5°	52.0	52.3	55.5	59.4	77.5	195.5	289.9	386.3	393.4	257.5	126.9
65°	43.4	43.4	43.9	43.9	46.5	69.9	88.0	113.5	95.7	71.0	49.7
67.5°	35.0	35.2	35.7	35.7	35.0	35.0	37.8	41.5	44.4	54.9	45.7
70°	27.3	27.1	27.1	27.3	26.5	22.6	24.4	27.9	30.5	42.8	39.7
72.5°	21.3	21.5	21.3	20.2	18.4	13.4	14.5	18.1	19.4	26.8	26.8
75°	16.0	16.3	15.2	11.6	7.6	4.2	5.5	8.9	11.3	13.1	9.7
77.5°	2.1	2.1	1.6	1.6	1.3	1.6	1.6	2.1	3.2	3.2	2.4
80°	0.3	0.3	0.3	0.5	0.8	1.1	1.1	1.1	1.1	1.3	1.3
82.5°	0.3	0.3	0.3	0.3	0.8	0.8	1.1	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	0.8	1.1	1.1	1.1
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°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	837.8	822.6	804.2	791.6	773.7	761.9	745.0	733.7	724.0	716.4	720.6
5°	838.1	813.9	776.3	744.3	709.3	677.2	642.8	615.7	591.3	580.3	586.3
7.5°	843.3	808.6	751.1	694.1	627.0	560.8	498.8	448.3	423.4	411.6	415.2
10°	853.6	806.3	723.0	628.4	519.6	429.2	369.0	334.8	320.9	313.5	314.8
12.5°	863.0	804.7	686.4	541.9	410.0	333.0	301.7	297.0	299.9	300.1	299.9
15°	875.9	801.8	641.2	453.1	328.0	287.8	288.6	295.4	302.2	304.3	303.8
17.5°	889.6	797.3	582.9	367.9	278.3	274.6	283.8	293.0	299.9	300.9	301.2
20°	903.8	788.1	516.4	300.4	255.2	264.6	274.9	281.7	286.7	288.3	288.8
22.5°	910.4	768.7	439.7	252.0	239.7	252.3	259.9	268.8	270.4	264.6	265.7
25°	906.9	735.8	364.8	219.4	224.2	236.8	248.1	243.6	237.0	232.8	234.2
27.5°	896.2	692.2	291.4	195.5	207.6	223.6	225.0	220.0	218.9	215.5	216.6
30°	884.6	642.0	234.4	176.3	190.8	207.6	203.7	205.5	205.8	201.8	203.1
32.5°	877.5	589.5	186.6	163.5	180.0	183.2	191.1	194.7	195.0	185.8	187.4
35°	879.9	537.7	157.9	153.0	170.0	169.2	180.3	182.4	167.1	154.5	155.8
37.5°	899.1	489.9	141.7	144.8	152.7	158.7	167.1	153.2	149.8	144.0	144.8
40°	934.8	449.1	131.9	139.8	140.9	150.6	137.7	139.5	139.8	136.1	136.9
42.5°	976.6	415.2	126.1	136.9	134.3	135.9	123.0	126.7	130.6	129.0	129.3
45°	997.6	382.1	121.2	126.9	127.7	112.7	109.9	113.8	118.8	119.6	119.8
47.5°	978.9	350.6	115.9	112.5	117.7	102.8	99.3	100.7	106.4	109.6	110.1
50°	921.9	314.3	108.0	99.6	96.7	92.2	89.1	89.4	95.9	101.4	102.5
52.5°	841.8	276.5	95.1	84.4	77.8	81.2	82.0	80.4	86.5	92.0	93.0
55°	764.0	229.2	75.4	68.6	62.5	69.9	72.0	69.9	71.7	75.4	75.7
57.5°	538.0	129.6	57.8	56.8	51.8	59.9	63.3	60.2	57.0	59.4	59.9
60°	249.4	67.8	44.4	44.4	43.1	51.5	57.3	52.8	46.8	47.8	48.6
62.5°	78.1	42.8	32.6	30.7	35.2	43.9	48.6	44.2	37.1	37.1	38.1
65°	44.2	36.8	25.8	23.7	28.6	35.2	38.1	33.4	27.1	26.5	26.5
67.5°	41.0	35.0	22.9	19.2	20.2	22.6	23.7	20.5	18.7	18.4	18.7
70°	33.9	29.2	18.4	13.1	12.4	12.1	12.6	11.8	11.3	11.6	12.4
72.5°	21.0	17.6	11.6	7.9	6.8	6.6	6.6	6.6	6.3	6.3	6.3
75°	7.6	6.6	5.3	3.9	3.4	3.2	3.2	3.4	3.2	2.9	2.6
77.5°	2.4	2.1	2.1	2.1	1.8	1.6	1.3	1.3	1.1	0.8	0.8
80°	1.3	1.3	1.3	1.3	1.1	1.1	0.8	0.5	0.3	0.3	0.0
82.5°	1.3	1.3	1.3	1.1	1.1	1.1	0.8	0.5	0.3	0.0	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.5	0.3	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.5	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)