

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: P629992

Luminaire Tested: GWS-SA1C-827-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629992
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-827-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, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2661.1 lumens
Efficiency: N/A
Efficacy: 78.0 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

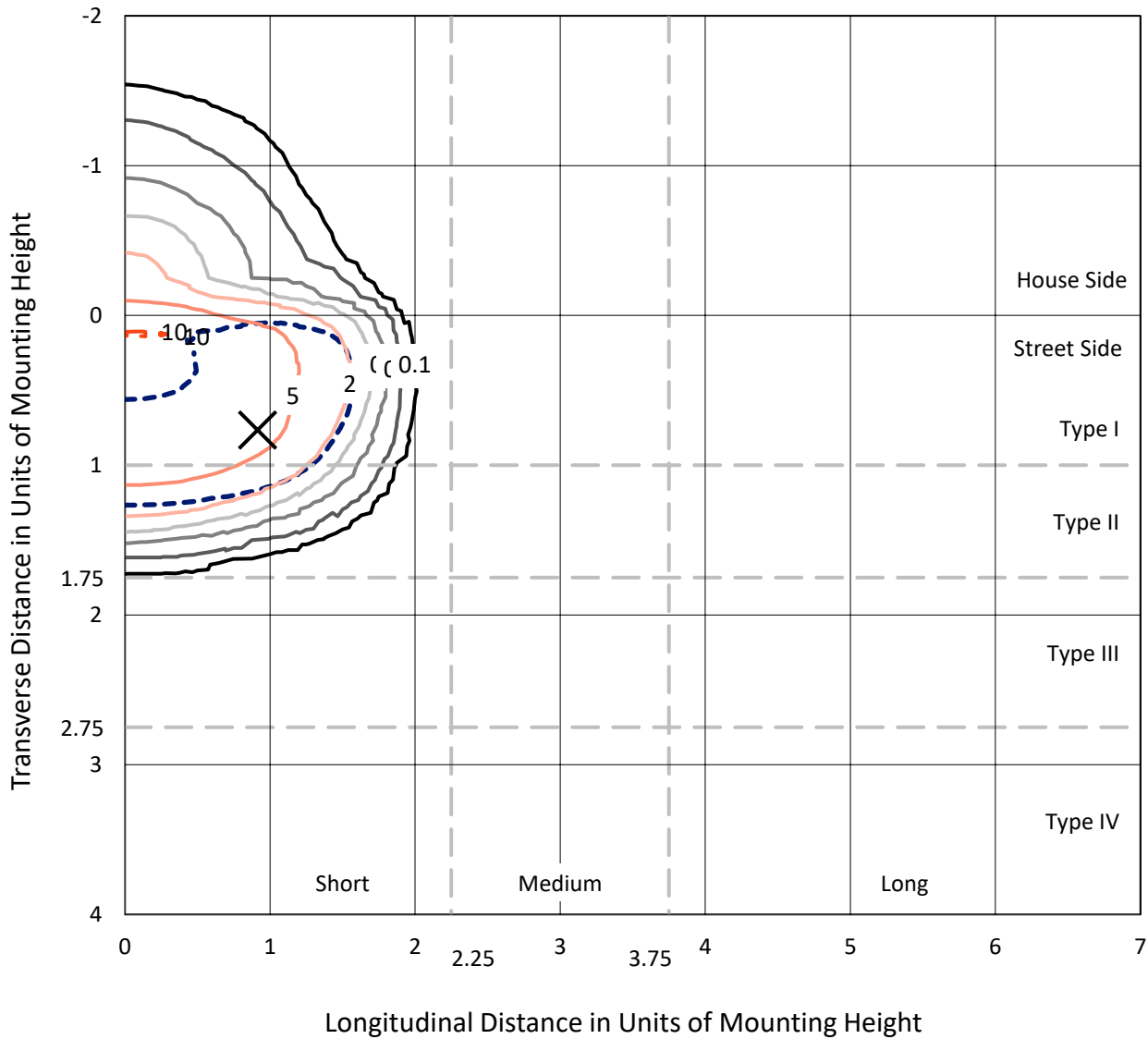
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

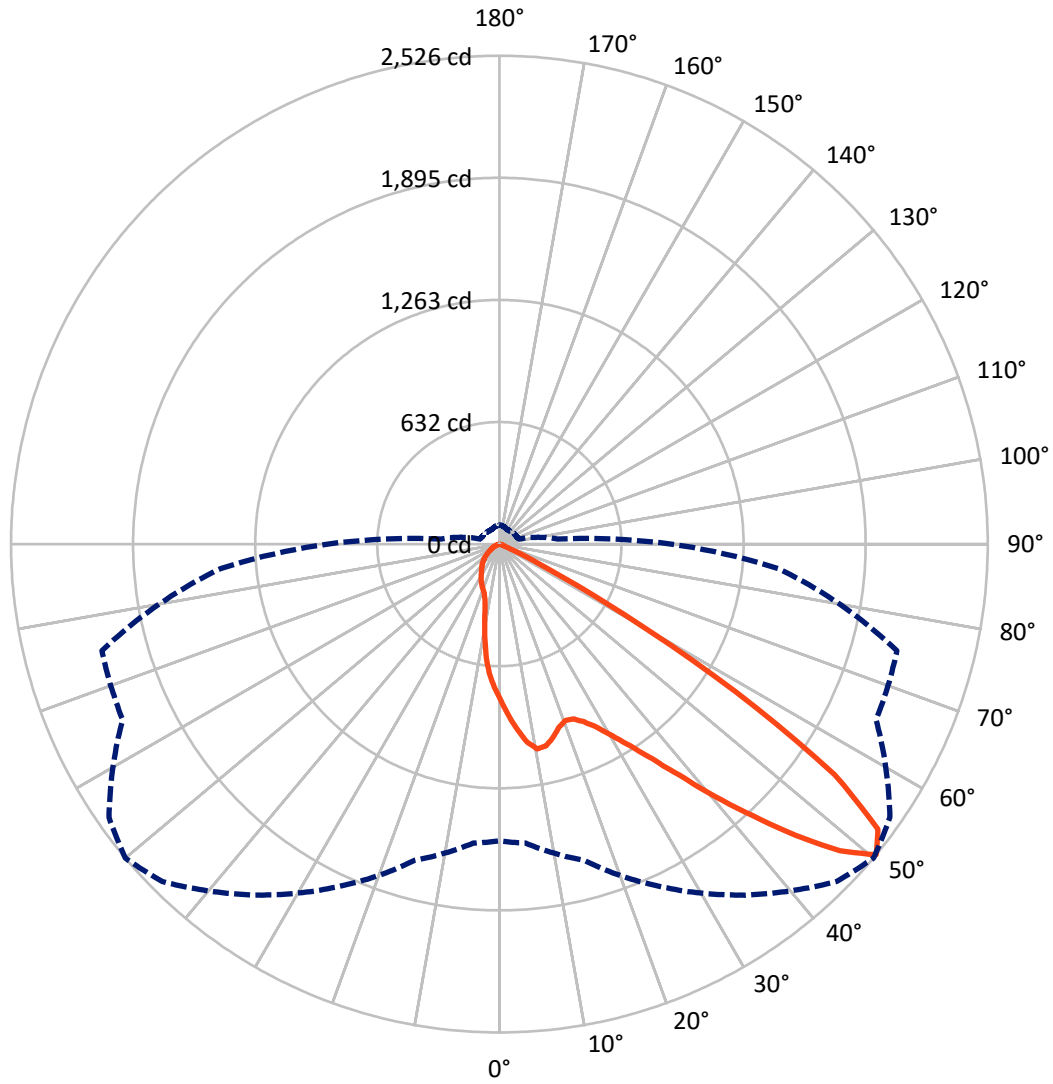
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 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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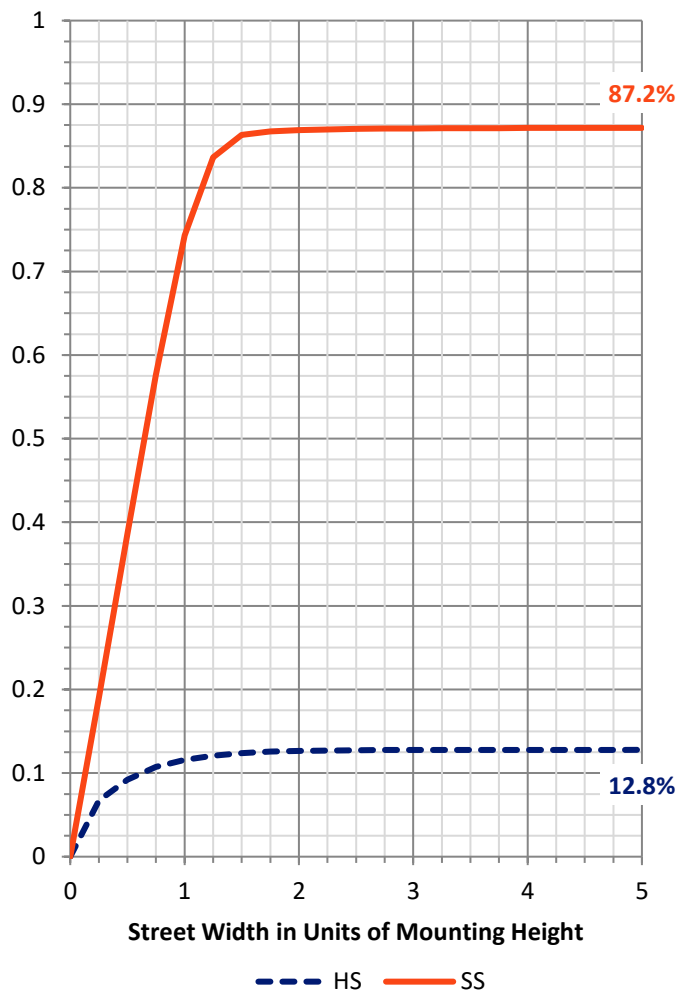
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	341.9	0.0	341.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2319.2	0.0	2319.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	2661.1	0.0	2661.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	2.8
10°-20°	193.0	7.3
20°-30°	318.5	12.0
30°-40°	525.5	19.7
40°-50°	831.5	31.2
50°-60°	629.5	23.7
60°-70°	78.8	3.0
70°-80°	8.9	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°	2661.1	100.0
0°-180°	2661.1	100.0

Coefficient of Utilization



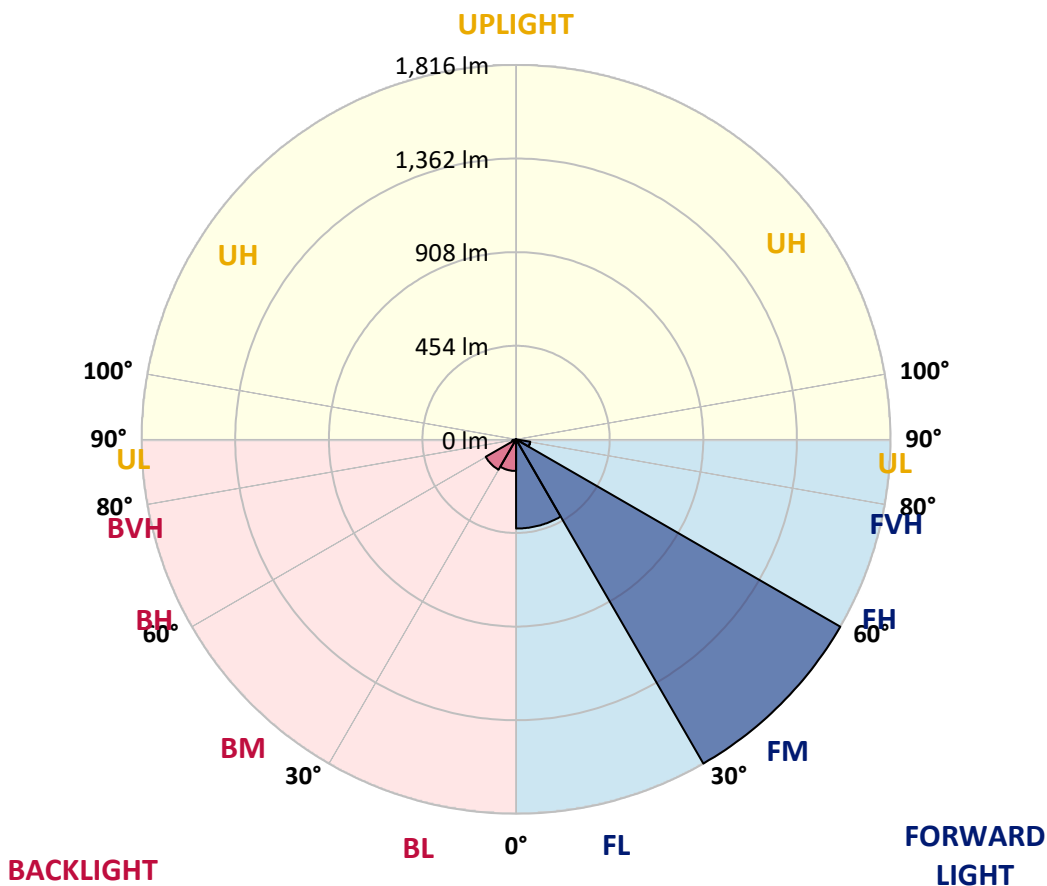
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.7	16.3			
FM (30°-60°)	1816.5	68.3			
FH (60°-80°)	69.7	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	153.5	5.8	B1/500		
BM (30°-60°)	170.0	6.4	B0/220		
BH (60°-80°)	18.0	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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	918.7	926.0	924.0	914.4	904.0	896.6	885.2	881.7	855.9	837.9	818.9
5°	1029.6	1031.9	1029.4	1017.7	999.5	982.0	963.2	952.4	909.0	870.0	830.3
7.5°	1056.2	1053.4	1058.2	1064.1	1061.5	1053.9	1034.2	1022.3	970.6	907.0	846.7
10°	973.1	966.8	984.8	1014.9	1046.6	1082.3	1077.2	1078.2	1030.6	953.6	868.3
12.5°	862.9	860.4	873.8	908.8	970.8	1051.9	1071.4	1104.1	1085.6	1004.0	892.8
15°	814.6	815.8	823.9	846.0	890.6	991.4	1038.2	1097.2	1134.7	1052.9	919.9
17.5°	821.9	826.5	826.2	833.6	860.7	941.5	996.2	1075.7	1172.7	1109.1	951.1
20°	871.8	876.4	869.5	864.0	873.1	928.8	974.1	1053.9	1198.3	1165.9	984.0
22.5°	946.5	951.8	935.6	919.7	913.9	949.6	982.5	1045.1	1217.8	1217.8	1013.4
25°	1037.0	1044.3	1019.2	990.9	974.6	993.4	1018.2	1065.1	1237.8	1264.4	1033.4
27.5°	1138.0	1138.3	1116.7	1084.8	1054.4	1056.7	1071.7	1110.2	1259.8	1314.6	1049.1
30°	1251.7	1252.5	1223.9	1185.6	1147.4	1137.0	1149.7	1178.8	1305.7	1377.6	1070.9
32.5°	1398.6	1402.2	1361.2	1304.9	1255.3	1235.8	1243.1	1273.8	1378.6	1456.6	1103.6
35°	1597.2	1601.0	1540.5	1466.3	1387.2	1357.9	1365.2	1396.1	1484.3	1568.8	1155.7
37.5°	1793.3	1798.3	1737.0	1667.9	1559.5	1510.8	1518.4	1547.8	1642.8	1723.9	1239.3
40°	1928.8	1935.6	1916.6	1870.0	1769.5	1705.6	1714.7	1725.4	1817.3	1909.3	1347.7
42.5°	2000.2	2009.8	2017.9	2041.7	1988.8	1935.4	1919.9	1920.7	1994.9	2098.2	1460.4
45°	2004.5	2013.9	2055.4	2147.4	2187.6	2176.5	2148.4	2129.4	2130.4	2224.1	1530.9
47.5°	1865.2	1882.7	1960.4	2140.5	2292.0	2384.4	2370.2	2325.2	2187.4	2232.5	1523.3
50°	1535.2	1552.4	1693.7	1952.8	2216.0	2467.5	2526.0	2465.5	2150.1	2128.4	1445.0
52.5°	1115.0	1116.7	1208.4	1511.1	1908.0	2314.3	2452.1	2446.2	2093.4	2002.2	1338.1
55°	529.6	523.3	626.4	852.8	1319.6	1871.8	2104.0	2169.9	2012.9	1911.0	1255.3
57.5°	154.3	157.3	203.1	332.8	660.1	1196.3	1440.9	1563.5	1652.2	1571.1	973.6
60°	69.1	69.4	77.3	101.3	219.9	556.5	744.9	896.6	987.8	915.4	483.0
62.5°	50.2	50.4	53.4	57.2	74.7	188.4	279.4	372.3	379.2	248.2	122.3
65°	41.8	41.8	42.3	42.3	44.8	67.4	84.9	109.4	92.2	68.4	47.9
67.5°	33.7	33.9	34.4	34.4	33.7	33.7	36.5	40.0	42.8	52.9	44.1
70°	26.3	26.1	26.1	26.3	25.6	21.8	23.6	26.8	29.4	41.3	38.2
72.5°	20.5	20.8	20.5	19.5	17.7	12.9	13.9	17.5	18.7	25.8	25.8
75°	15.5	15.7	14.7	11.1	7.3	4.1	5.3	8.6	10.9	12.7	9.4
77.5°	2.0	2.0	1.5	1.5	1.3	1.5	1.5	2.0	3.0	3.0	2.3
80°	0.3	0.3	0.3	0.5	0.8	1.0	1.0	1.0	1.0	1.3	1.3
82.5°	0.3	0.3	0.3	0.3	0.8	0.8	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	0.8	1.0	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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	807.5	792.8	775.1	762.9	745.7	734.3	718.1	707.2	697.8	690.5	694.5
5°	807.7	784.4	748.2	717.3	683.6	652.7	619.5	593.4	569.9	559.3	565.1
7.5°	812.8	779.4	723.9	668.9	604.3	540.5	480.7	432.1	408.0	396.6	400.2
10°	822.7	777.1	696.8	605.6	500.7	413.6	355.6	322.7	309.3	302.2	303.4
12.5°	831.8	775.6	661.6	522.3	395.1	320.9	290.8	286.2	289.0	289.3	289.0
15°	844.2	772.8	618.0	436.7	316.1	277.3	278.1	284.7	291.3	293.3	292.8
17.5°	857.4	768.5	561.8	354.6	268.2	264.7	273.5	282.4	289.0	290.0	290.3
20°	871.0	759.6	497.7	289.5	245.9	255.1	264.9	271.5	276.3	277.9	278.4
22.5°	877.4	740.9	423.7	242.9	231.0	243.2	250.5	259.1	260.6	255.1	256.1
25°	874.1	709.2	351.6	211.5	216.1	228.2	239.1	234.8	228.5	224.4	225.7
27.5°	863.7	667.2	280.9	188.4	200.1	215.5	216.8	212.0	211.0	207.7	208.7
30°	852.6	618.8	225.9	170.0	183.9	200.1	196.3	198.1	198.3	194.5	195.8
32.5°	845.7	568.1	179.8	157.5	173.5	176.5	184.1	187.7	187.9	179.1	180.6
35°	848.0	518.2	152.2	147.4	163.9	163.1	173.8	175.8	161.1	148.9	150.2
37.5°	866.5	472.1	136.5	139.6	147.2	153.0	161.1	147.7	144.4	138.8	139.6
40°	900.9	432.9	127.1	134.7	135.8	145.1	132.7	134.5	134.7	131.2	132.0
42.5°	941.2	400.2	121.6	132.0	129.4	130.9	118.5	122.1	125.9	124.4	124.6
45°	961.5	368.3	116.8	122.3	123.1	108.7	105.9	109.7	114.5	115.2	115.5
47.5°	943.5	337.9	111.7	108.4	113.5	99.0	95.7	97.0	102.6	105.6	106.1
50°	888.5	302.9	104.1	96.0	93.2	88.9	85.9	86.1	92.4	97.8	98.8
52.5°	811.3	266.5	91.7	81.3	75.0	78.3	79.0	77.5	83.3	88.6	89.7
55°	736.3	220.9	72.7	66.1	60.3	67.4	69.4	67.4	69.1	72.7	72.9
57.5°	518.5	124.9	55.7	54.7	49.9	57.7	61.0	58.0	55.0	57.2	57.7
60°	240.4	65.3	42.8	42.8	41.5	49.6	55.2	50.9	45.1	46.1	46.9
62.5°	75.2	41.3	31.4	29.6	33.9	42.3	46.9	42.6	35.7	35.7	36.7
65°	42.6	35.5	24.8	22.8	27.6	33.9	36.7	32.2	26.1	25.6	25.6
67.5°	39.5	33.7	22.0	18.5	19.5	21.8	22.8	19.8	18.0	17.7	18.0
70°	32.7	28.1	17.7	12.7	11.9	11.7	12.2	11.4	10.9	11.1	11.9
72.5°	20.3	17.0	11.1	7.6	6.6	6.3	6.3	6.3	6.1	6.1	6.1
75°	7.3	6.3	5.1	3.8	3.3	3.0	3.0	3.3	3.0	2.8	2.5
77.5°	2.3	2.0	2.0	2.0	1.8	1.5	1.3	1.3	1.0	0.8	0.8
80°	1.3	1.3	1.3	1.3	1.0	1.0	0.8	0.5	0.3	0.3	0.0
82.5°	1.3	1.3	1.3	1.0	1.0	1.0	0.8	0.5	0.3	0.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.5	0.3	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	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)