

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: P629279

Luminaire Tested: GWS-SA1B-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629279
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662.3 lumens
Efficiency: N/A
Efficacy: 106.5 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

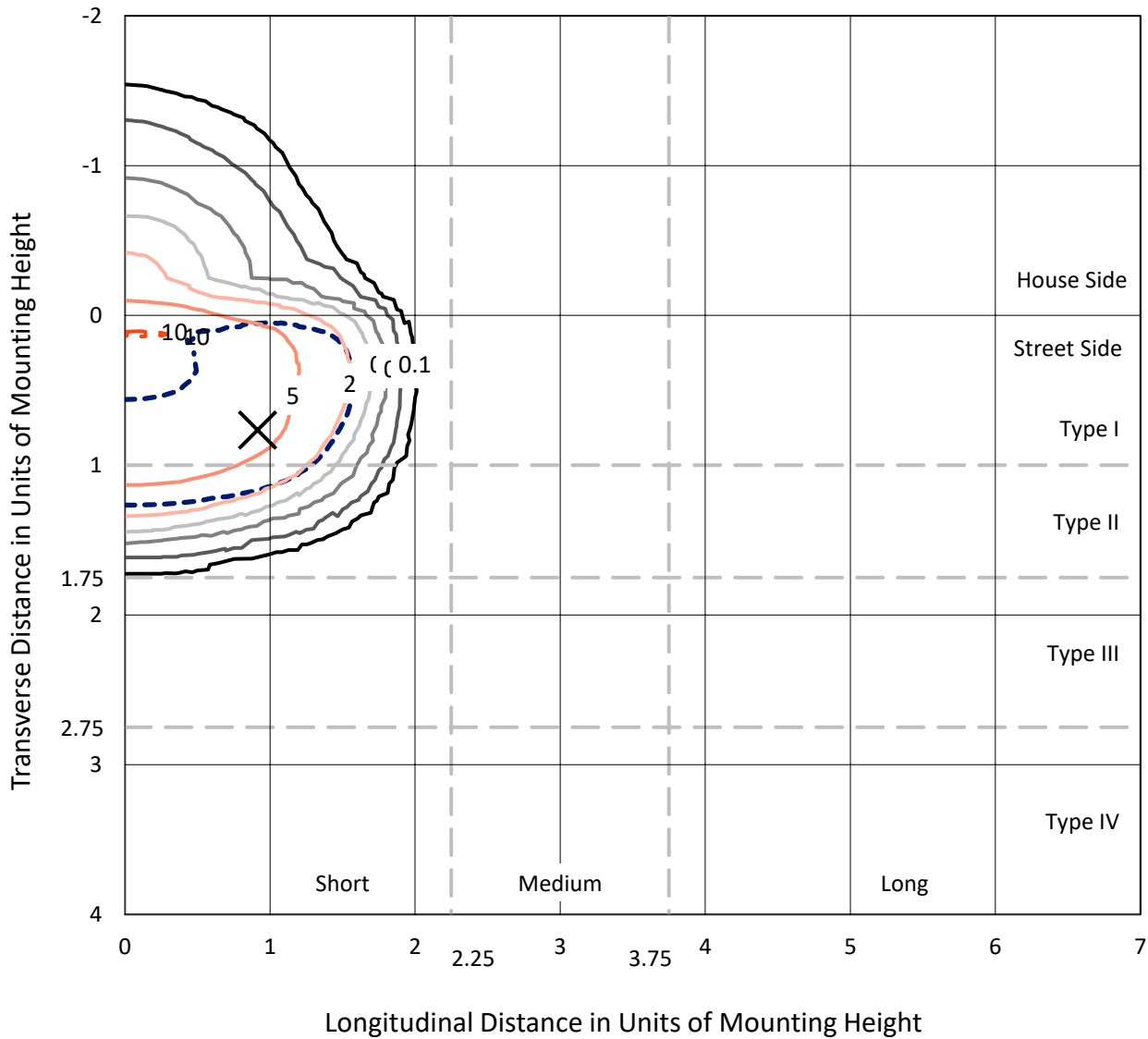
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

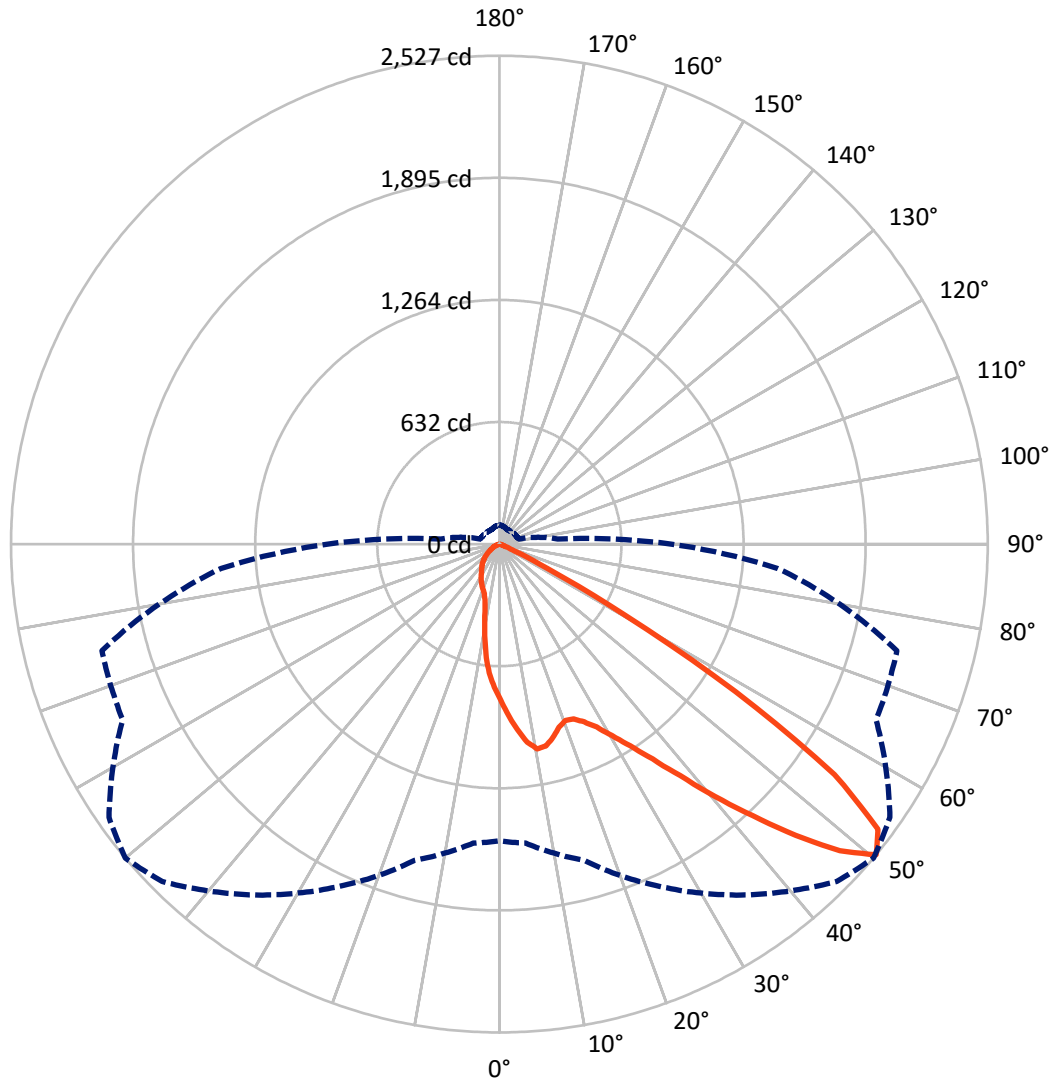
✕ Max cd
 - - - 1/2 Max cd



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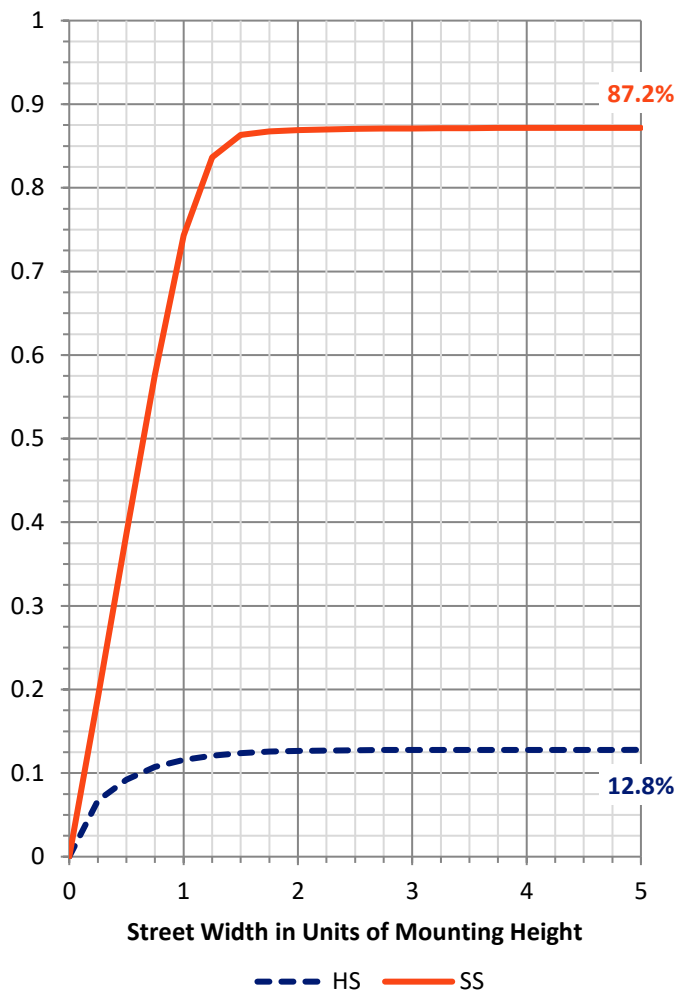
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	342.1	0.0	342.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2320.2	0.0	2320.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	2662.3	0.0	2662.3
	% 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°	318.6	12.0
30°-40°	525.7	19.7
40°-50°	831.9	31.2
50°-60°	629.8	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°	2662.3	100.0
0°-180°	2662.3	100.0

Coefficient of Utilization



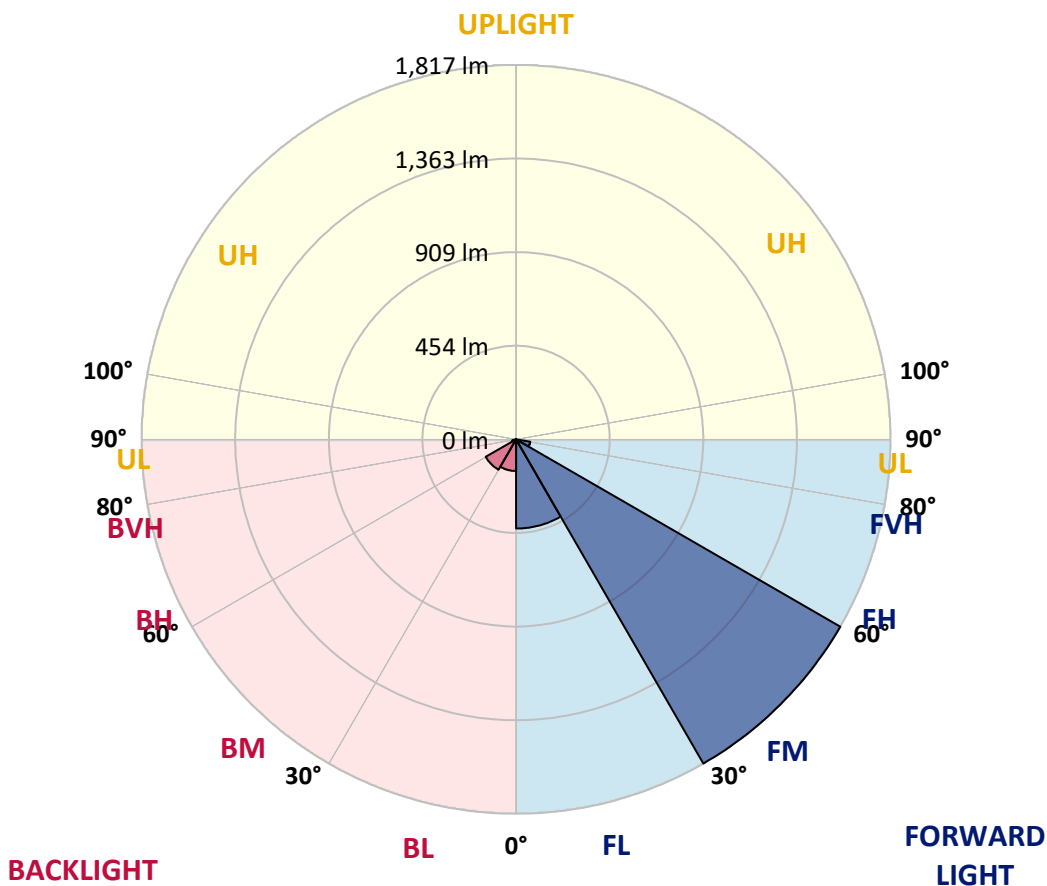
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.9	16.3			
FM (30°-60°)	1817.3	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°)	170.1	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°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	919.1	926.4	924.4	914.8	904.4	897.0	885.6	882.1	856.2	838.2	819.2
5°	1030.1	1032.4	1029.8	1018.2	999.9	982.4	963.7	952.8	909.5	870.4	830.6
7.5°	1056.7	1053.9	1058.7	1064.5	1062.0	1054.4	1034.6	1022.7	971.0	907.4	847.1
10°	973.6	967.2	985.2	1015.4	1047.0	1082.8	1077.7	1078.7	1031.1	954.0	868.7
12.5°	863.3	860.8	874.2	909.2	971.3	1052.4	1071.9	1104.6	1086.1	1004.5	893.2
15°	814.9	816.2	824.3	846.4	891.0	991.8	1038.7	1097.7	1135.2	1053.4	920.3
17.5°	822.3	826.8	826.6	833.9	861.1	941.9	996.6	1076.2	1173.2	1109.6	951.5
20°	872.2	876.8	869.9	864.3	873.5	929.2	974.6	1054.4	1198.8	1166.4	984.5
22.5°	947.0	952.3	936.1	920.1	914.3	950.0	982.9	1045.5	1218.3	1218.3	1013.9
25°	1037.4	1044.8	1019.7	991.3	975.1	993.8	1018.7	1065.5	1238.4	1265.0	1033.9
27.5°	1138.5	1138.8	1117.2	1085.3	1054.9	1057.2	1072.1	1110.7	1260.4	1315.1	1049.6
30°	1252.3	1253.1	1224.4	1186.2	1147.9	1137.5	1150.2	1179.3	1306.3	1378.2	1071.4
32.5°	1399.3	1402.8	1361.8	1305.5	1255.8	1236.3	1243.7	1274.3	1379.3	1457.3	1104.1
35°	1597.9	1601.7	1541.2	1466.9	1387.9	1358.5	1365.8	1396.7	1484.9	1569.6	1156.3
37.5°	1794.1	1799.1	1737.8	1668.6	1560.2	1511.5	1519.1	1548.5	1643.6	1724.6	1239.9
40°	1929.6	1936.5	1917.5	1870.8	1770.2	1706.4	1715.5	1726.2	1818.1	1910.1	1348.3
42.5°	2001.1	2010.7	2018.8	2042.7	1989.7	1936.2	1920.8	1921.5	1995.8	2099.2	1461.1
45°	2005.4	2014.8	2056.3	2148.3	2188.6	2177.5	2149.3	2130.3	2131.3	2225.1	1531.5
47.5°	1866.0	1883.5	1961.3	2141.5	2293.0	2385.5	2371.3	2326.2	2188.4	2233.5	1523.9
50°	1535.9	1553.1	1694.5	1953.7	2217.0	2468.6	2527.2	2466.6	2151.1	2129.3	1445.6
52.5°	1115.5	1117.2	1209.0	1511.8	1908.9	2315.3	2453.2	2447.3	2094.3	2003.1	1338.7
55°	529.9	523.5	626.7	853.2	1320.2	1872.6	2105.0	2170.9	2013.8	1911.9	1255.8
57.5°	154.3	157.4	203.2	333.0	660.4	1196.8	1441.6	1564.2	1652.9	1571.8	974.1
60°	69.2	69.4	77.3	101.4	220.0	556.7	745.2	897.0	988.3	915.8	483.2
62.5°	50.2	50.4	53.5	57.3	74.8	188.5	279.5	372.5	379.3	248.3	122.4
65°	41.8	41.8	42.3	42.3	44.9	67.4	84.9	109.5	92.2	68.4	47.9
67.5°	33.7	34.0	34.5	34.5	33.7	33.7	36.5	40.0	42.8	53.0	44.1
70°	26.4	26.1	26.1	26.4	25.6	21.8	23.6	26.9	29.4	41.3	38.3
72.5°	20.5	20.8	20.5	19.5	17.7	12.9	13.9	17.5	18.8	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°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	807.8	793.1	775.4	763.2	746.0	734.6	718.4	707.5	698.1	690.8	694.8
5°	808.1	784.8	748.5	717.6	683.9	653.0	619.8	593.7	570.1	559.5	565.3
7.5°	813.2	779.7	724.2	669.2	604.6	540.8	481.0	432.3	408.2	396.8	400.4
10°	823.0	777.4	697.1	605.9	501.0	413.8	355.8	322.8	309.4	302.3	303.6
12.5°	832.2	775.9	661.9	522.5	395.3	321.1	290.9	286.3	289.1	289.4	289.1
15°	844.6	773.1	618.3	436.9	316.2	277.5	278.2	284.8	291.4	293.4	292.9
17.5°	857.8	768.8	562.0	354.8	268.4	264.8	273.7	282.5	289.1	290.1	290.4
20°	871.4	759.9	497.9	289.6	246.1	255.2	265.1	271.6	276.5	278.0	278.5
22.5°	877.8	741.2	423.9	243.0	231.1	243.3	250.6	259.2	260.7	255.2	256.2
25°	874.5	709.5	351.7	211.6	216.1	228.3	239.2	234.9	228.6	224.5	225.8
27.5°	864.1	667.5	281.0	188.5	200.2	215.6	216.9	212.1	211.1	207.8	208.8
30°	852.9	619.1	226.0	170.0	184.0	200.2	196.4	198.2	198.4	194.6	195.9
32.5°	846.1	568.4	179.9	157.6	173.6	176.6	184.2	187.8	188.0	179.2	180.7
35°	848.4	518.5	152.3	147.5	163.9	163.2	173.8	175.9	161.2	149.0	150.3
37.5°	866.9	472.3	136.6	139.6	147.2	153.1	161.2	147.7	144.4	138.9	139.6
40°	901.3	433.1	127.2	134.8	135.8	145.2	132.8	134.6	134.8	131.3	132.0
42.5°	941.6	400.4	121.6	132.0	129.5	131.0	118.6	122.1	125.9	124.4	124.7
45°	961.9	368.4	116.8	122.4	123.2	108.7	105.9	109.7	114.5	115.3	115.6
47.5°	943.9	338.0	111.7	108.5	113.5	99.1	95.8	97.1	102.6	105.7	106.2
50°	888.9	303.1	104.1	96.0	93.3	88.9	85.9	86.2	92.5	97.8	98.8
52.5°	811.6	266.6	91.7	81.3	75.0	78.3	79.1	77.5	83.4	88.7	89.7
55°	736.6	221.0	72.7	66.1	60.3	67.4	69.4	67.4	69.2	72.7	73.0
57.5°	518.7	124.9	55.7	54.7	49.9	57.8	61.1	58.0	55.0	57.3	57.8
60°	240.5	65.4	42.8	42.8	41.6	49.7	55.2	50.9	45.1	46.1	46.9
62.5°	75.3	41.3	31.4	29.6	34.0	42.3	46.9	42.6	35.7	35.7	36.7
65°	42.6	35.5	24.8	22.8	27.6	34.0	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)