

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: P629281

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
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-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

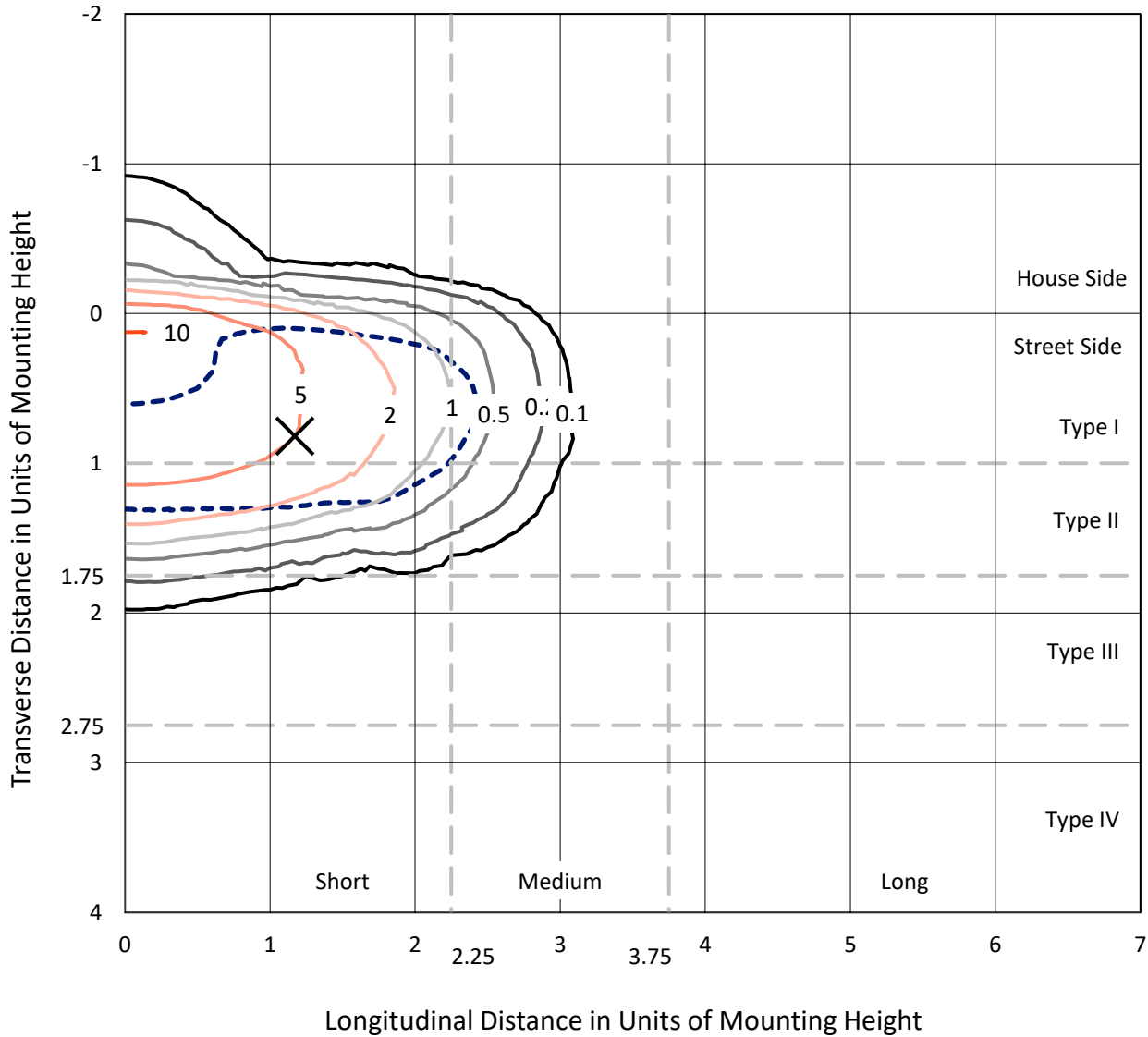
Lumens per Lamp: N/A  
Luminaire Lumens: 2964.4 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

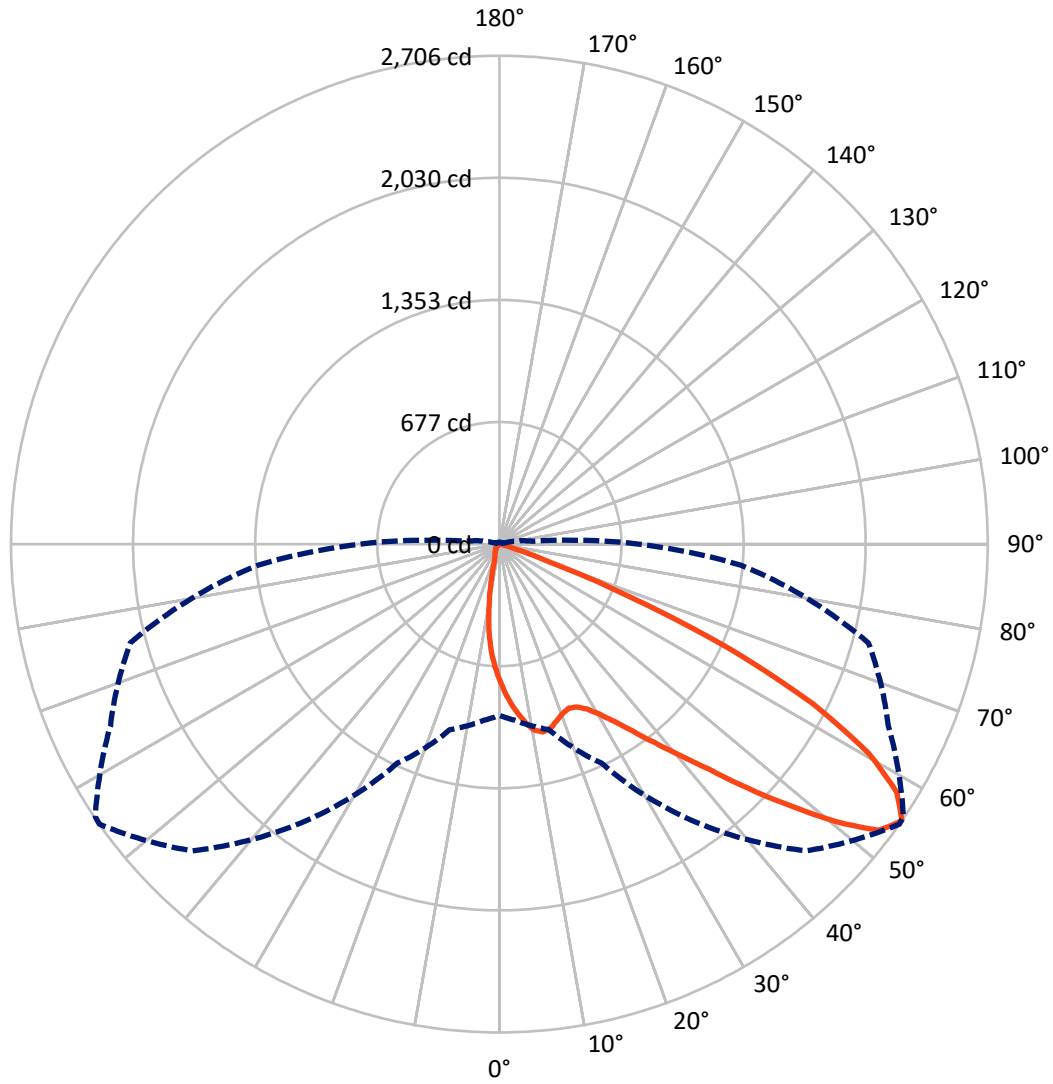
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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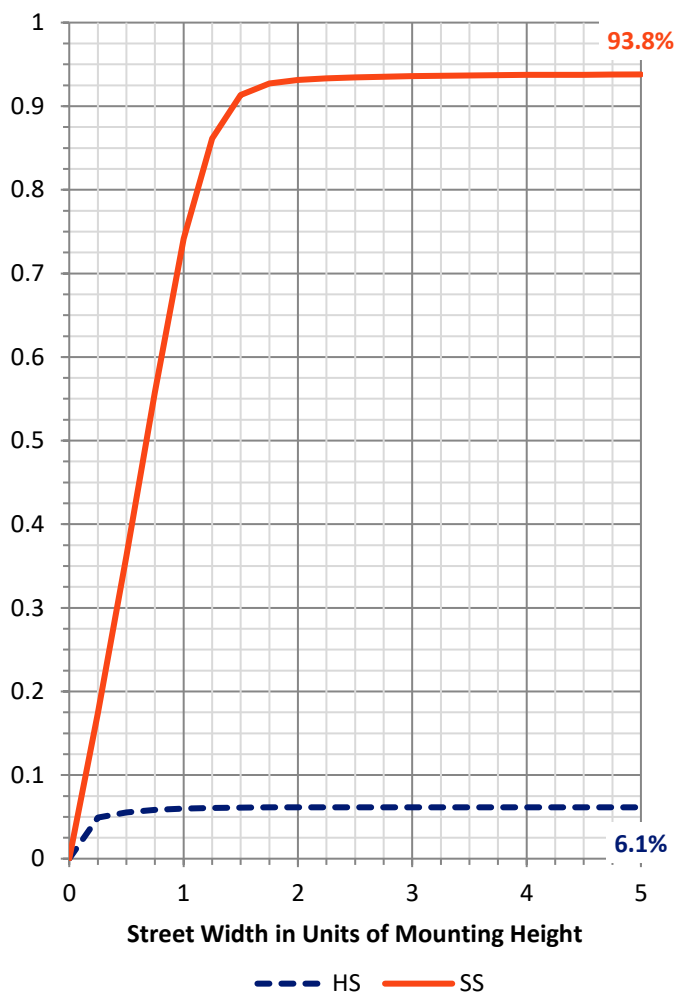
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	182.9	0.0	182.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	2781.5	0.0	2781.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	2964.4	0.0	2964.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	2.3
10°-20°	163.2	5.5
20°-30°	271.7	9.2
30°-40°	463.1	15.6
40°-50°	755.9	25.5
50°-60°	791.4	26.7
60°-70°	399.2	13.5
70°-80°	50.4	1.7
80°-90°	1.9	0.1
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°	2964.4	100.0
0°-180°	2964.4	100.0

**Coefficient of Utilization**



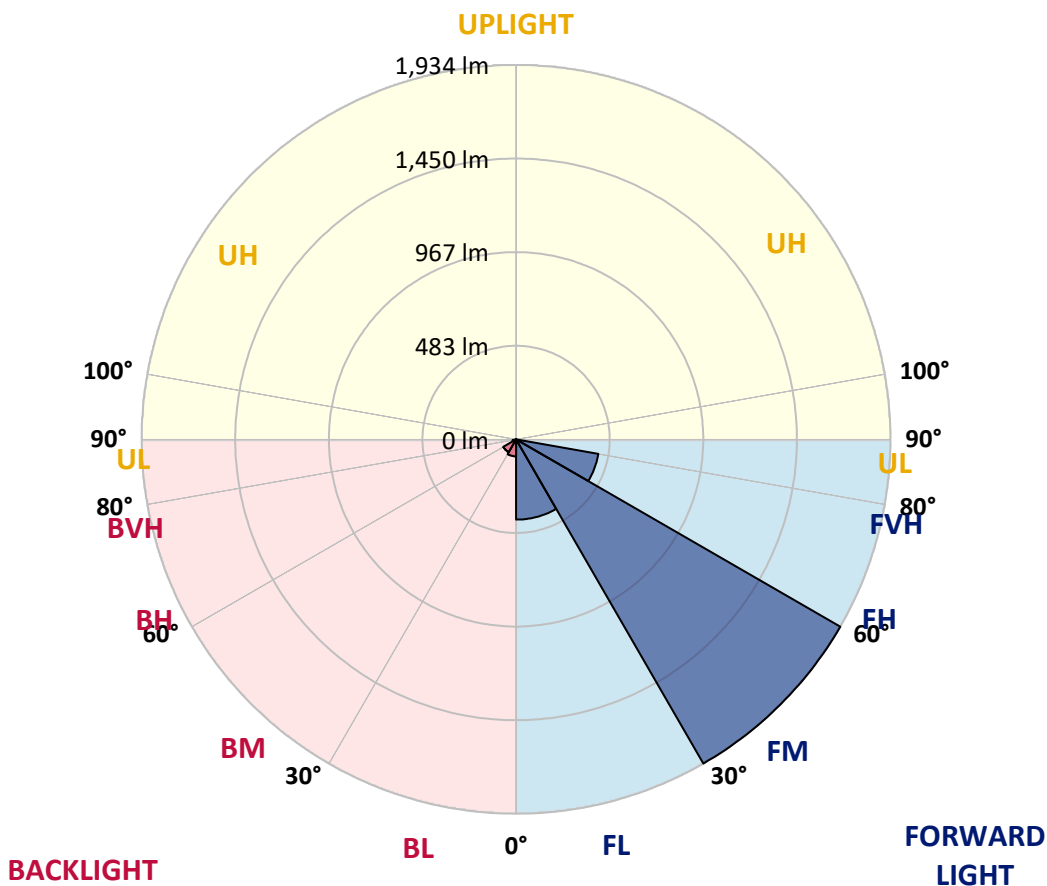
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.7	14.0			
FM (30°-60°)	1933.8	65.2			
FH (60°-80°)	431.2	14.5			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	87.9	3.0	B0/110		
BM (30°-60°)	76.5	2.6	B0/220		
BH (60°-80°)	18.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8
2.5°	892.8	888.5	895.1	887.5	874.5	863.6	849.5	844.4	821.6	800.0	779.3
5°	1001.3	1002.5	1000.5	989.8	971.6	951.3	922.7	916.4	876.6	835.5	791.2
7.5°	1028.1	1027.4	1031.7	1035.7	1032.7	1022.5	991.4	985.0	935.6	874.0	809.4
10°	945.2	945.8	954.6	982.0	1016.0	1051.2	1046.4	1042.8	994.4	917.6	829.7
12.5°	828.2	832.7	842.1	881.1	938.7	1018.7	1068.4	1072.0	1048.4	965.5	853.5
15°	777.5	778.5	786.1	809.7	852.5	951.3	1059.0	1068.9	1093.5	1013.7	879.4
17.5°	776.2	777.5	780.8	791.2	819.0	898.4	1028.9	1046.1	1127.5	1065.4	910.3
20°	823.9	823.1	820.8	815.2	827.4	880.9	1001.0	1020.0	1146.0	1115.8	941.4
22.5°	910.3	909.3	899.1	876.1	866.2	896.8	987.3	1004.5	1157.1	1160.7	967.0
25°	1009.9	1017.0	998.0	963.0	938.7	937.6	999.5	1011.6	1166.7	1200.4	984.5
27.5°	1119.1	1121.4	1105.2	1065.9	1030.6	1003.0	1034.7	1043.8	1177.4	1235.9	994.4
30°	1239.0	1238.2	1219.7	1174.1	1131.3	1091.5	1094.0	1097.6	1202.2	1276.5	1005.3
32.5°	1388.7	1392.0	1359.1	1297.0	1245.5	1190.6	1171.5	1172.1	1247.1	1328.7	1021.8
35°	1592.2	1584.1	1540.5	1452.1	1364.4	1305.1	1272.7	1269.9	1316.2	1398.9	1050.4
37.5°	1786.1	1786.8	1741.2	1643.9	1533.2	1439.7	1393.8	1386.2	1413.6	1496.2	1098.1
40°	1920.7	1923.2	1904.2	1853.2	1735.9	1603.6	1536.2	1528.4	1539.8	1619.3	1160.4
42.5°	1991.9	1999.0	2004.3	2016.2	1927.2	1808.4	1704.7	1704.0	1692.1	1759.7	1232.6
45°	1994.6	2005.3	2037.7	2119.1	2129.2	2042.0	1929.3	1912.3	1866.4	1910.0	1297.2
47.5°	1884.4	1909.0	1977.9	2139.1	2245.5	2274.4	2162.7	2152.3	2023.5	2028.9	1345.6
50°	1627.4	1653.0	1780.0	2036.5	2274.9	2458.9	2418.9	2397.3	2154.8	2107.4	1369.0
52.5°	1363.9	1387.2	1473.4	1792.2	2153.0	2516.9	2634.8	2609.2	2272.6	2134.8	1359.3
55°	949.0	980.2	1064.4	1339.6	1872.2	2403.9	2706.2	2700.9	2377.8	2117.6	1344.4
57.5°	465.3	496.2	580.1	825.9	1387.0	2098.8	2597.0	2625.2	2440.7	2099.1	1332.2
60°	194.4	207.0	235.9	362.4	776.0	1586.1	2350.4	2389.5	2402.1	2074.0	1330.9
62.5°	112.8	114.8	117.8	150.3	301.8	909.3	1949.8	2005.3	2199.7	2040.8	1310.9
65°	85.1	85.9	84.6	92.2	124.7	344.9	1408.7	1484.3	1836.0	1911.0	1231.9
67.5°	69.9	69.9	66.6	68.2	78.3	129.2	777.7	883.2	1358.6	1570.7	1017.2
70°	55.8	57.0	55.5	53.5	56.0	71.5	276.7	343.1	791.2	927.5	593.3
72.5°	42.3	42.3	44.9	43.3	41.6	44.9	96.6	108.5	317.5	386.7	214.1
75°	32.7	33.7	35.5	34.0	31.4	26.6	46.4	49.2	95.8	90.0	47.9
77.5°	16.7	17.0	22.6	24.8	23.3	16.2	20.3	22.3	31.2	27.9	17.7
80°	10.1	10.6	12.7	19.5	15.5	8.6	8.4	8.9	14.7	12.7	7.3
82.5°	4.3	4.6	7.1	7.1	6.3	3.3	3.3	3.3	7.1	6.6	3.0
85°	0.0	0.0	1.3	1.0	1.0	1.3	1.3	1.3	1.8	2.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.8
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°	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8
2.5°	765.8	749.6	727.8	708.0	681.4	666.5	645.7	628.7	614.3	609.7	607.7
5°	766.1	738.2	691.6	644.9	587.7	542.6	496.2	459.4	429.3	419.7	417.1
7.5°	771.1	730.1	654.6	569.9	474.1	395.1	324.4	261.0	231.6	221.7	219.7
10°	778.0	723.3	611.7	480.0	342.4	240.7	170.5	130.0	110.7	100.1	101.6
12.5°	786.9	717.7	564.4	382.7	226.6	132.3	93.8	78.6	74.5	72.5	71.5
15°	798.8	711.1	505.6	286.1	138.9	85.1	72.2	68.2	66.6	65.6	65.4
17.5°	810.9	703.5	445.8	201.2	92.2	70.7	64.9	62.8	61.8	61.1	60.8
20°	823.9	690.6	375.6	138.6	72.7	63.6	59.8	57.5	56.3	55.0	54.7
22.5°	829.4	669.8	308.4	97.1	64.6	58.5	53.7	50.9	49.4	48.4	48.4
25°	824.1	636.1	239.0	73.7	58.8	53.0	48.1	45.1	43.8	42.8	42.8
27.5°	809.9	592.7	174.4	61.1	52.5	47.1	42.6	39.8	38.8	38.3	38.3
30°	794.2	538.0	122.9	52.5	45.4	41.1	37.3	35.5	35.2	34.7	34.7
32.5°	780.8	486.8	84.6	46.1	40.0	35.7	33.2	32.4	32.7	32.2	32.4
35°	773.4	436.6	62.8	41.1	35.7	31.7	30.4	30.4	30.4	30.2	30.2
37.5°	776.5	387.2	51.2	37.5	31.9	28.9	27.6	28.1	28.6	28.6	28.6
40°	791.7	343.4	45.4	34.2	28.6	26.4	25.3	26.1	26.9	27.4	27.4
42.5°	810.9	307.9	41.1	31.4	26.4	23.8	23.3	24.1	24.8	25.3	25.3
45°	823.1	272.2	36.7	27.9	24.1	21.0	21.0	22.0	21.8	22.0	22.0
47.5°	828.7	243.8	32.4	24.1	20.5	18.2	18.5	19.0	18.5	19.0	19.0
50°	815.0	215.2	28.6	20.0	17.0	16.0	16.5	16.2	16.2	17.2	17.2
52.5°	789.9	193.9	25.3	17.0	14.4	14.2	14.7	13.7	13.9	13.9	13.7
55°	771.4	181.7	22.6	14.7	12.4	12.7	12.4	10.6	9.6	8.6	8.4
57.5°	762.3	176.9	20.5	13.2	11.2	11.2	10.1	7.3	5.6	4.3	3.8
60°	760.3	171.1	18.5	11.4	9.9	9.4	7.3	4.3	2.8	2.0	1.8
62.5°	741.0	156.9	16.7	9.1	8.6	7.6	4.6	2.5	1.5	1.0	0.8
65°	677.9	129.0	15.0	7.1	6.6	5.6	2.8	1.5	0.8	0.3	0.0
67.5°	539.3	91.5	13.2	5.3	4.6	3.5	1.8	1.0	0.3	0.0	0.0
70°	310.9	49.4	10.9	3.8	3.0	2.3	1.3	0.5	0.0	0.0	0.0
72.5°	103.9	23.1	8.4	2.5	2.3	1.8	0.8	0.3	0.0	0.0	0.0
75°	22.8	13.7	5.6	1.8	1.5	1.3	0.5	0.0	0.0	0.0	0.0
77.5°	8.6	9.6	2.8	1.3	1.0	0.8	0.3	0.0	0.0	0.0	0.0
80°	3.3	6.3	1.3	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	2.5	0.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	1.3	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	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)