

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: P630227

Luminaire Tested: GWS-SA1D-730-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-730-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

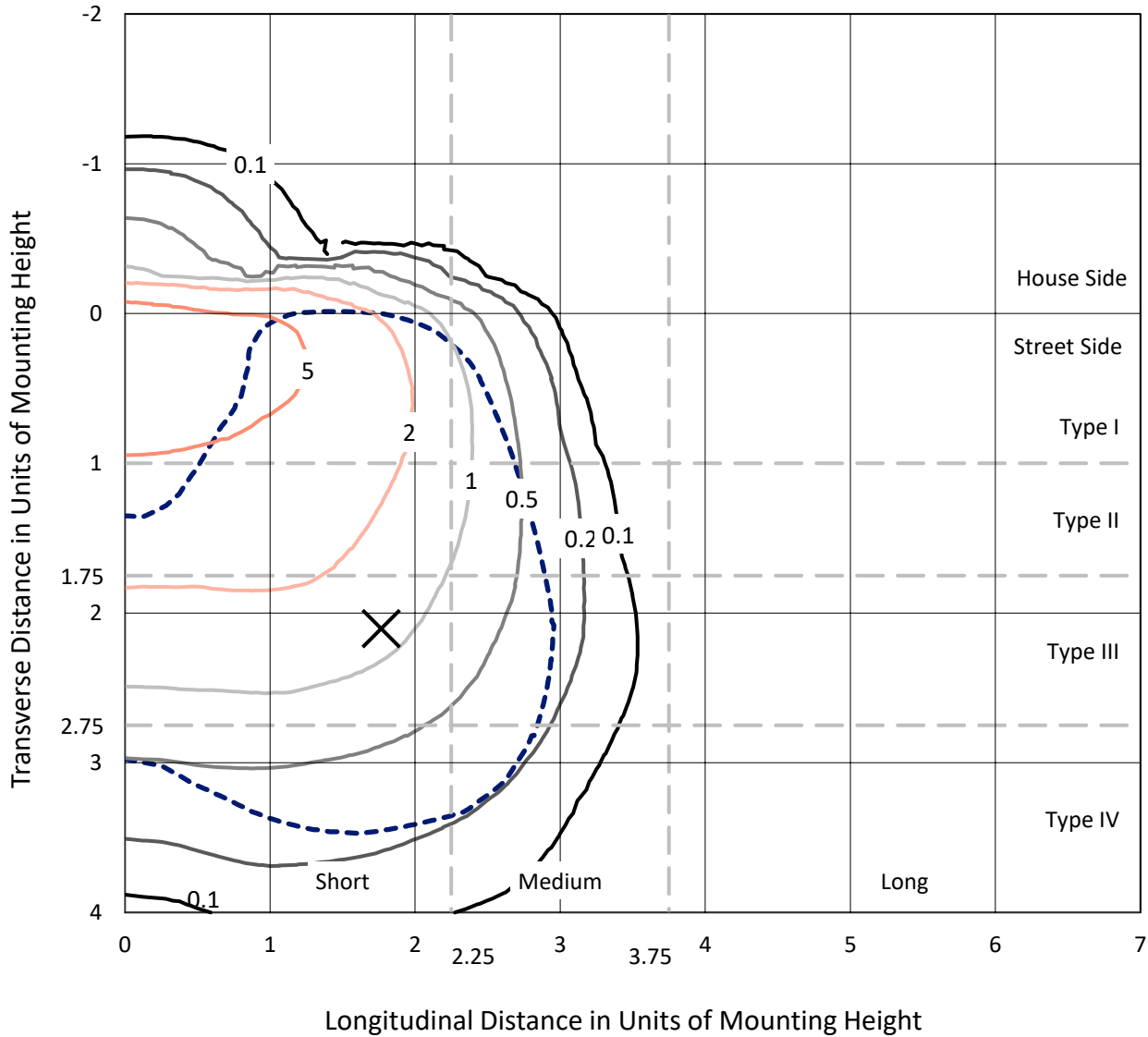
Lumens per Lamp: N/A  
Luminaire Lumens: 4350.7 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

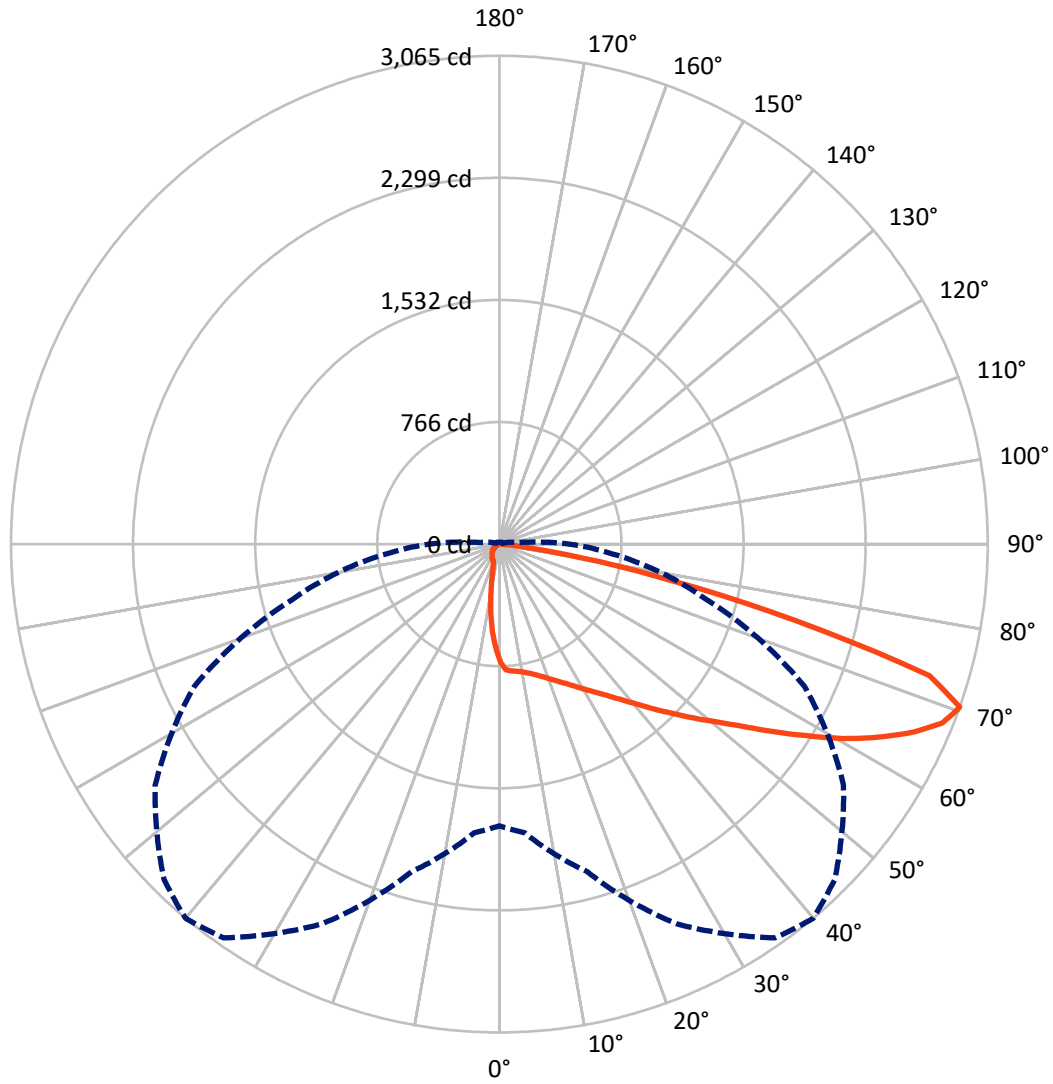
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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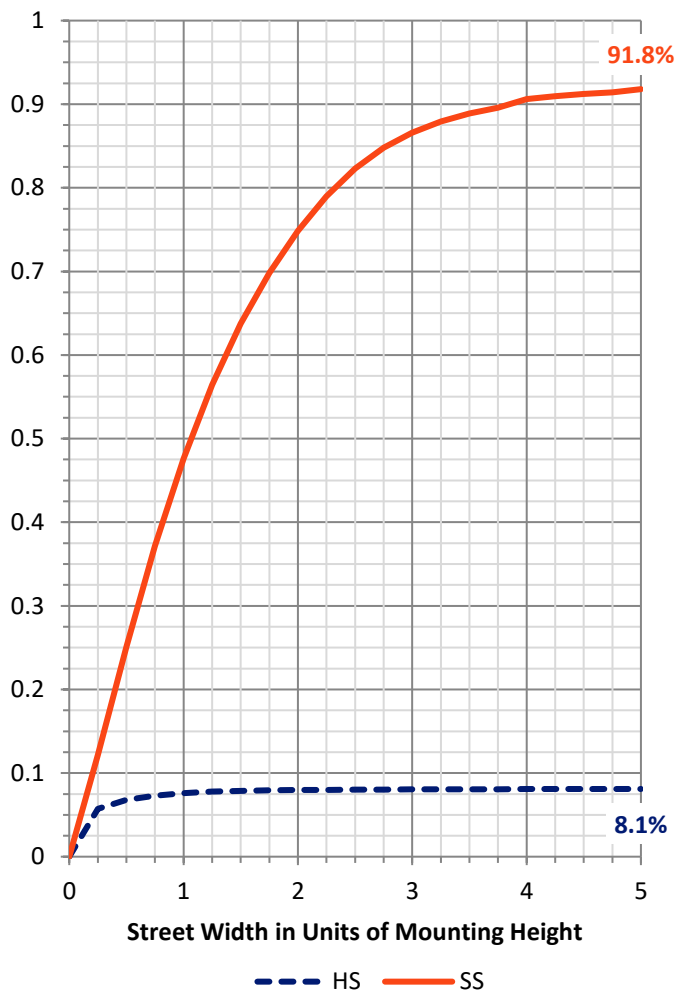
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	355.8	0.0	355.8
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	3994.9	0.0	3994.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	4350.7	0.0	4350.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	1.4
10°-20°	158.3	3.6
20°-30°	264.9	6.1
30°-40°	416.0	9.6
40°-50°	658.0	15.1
50°-60°	959.9	22.1
60°-70°	1189.9	27.4
70°-80°	602.0	13.8
80°-90°	39.3	0.9
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°	4350.7	100.0
0°-180°	4350.7	100.0

**Coefficient of Utilization**



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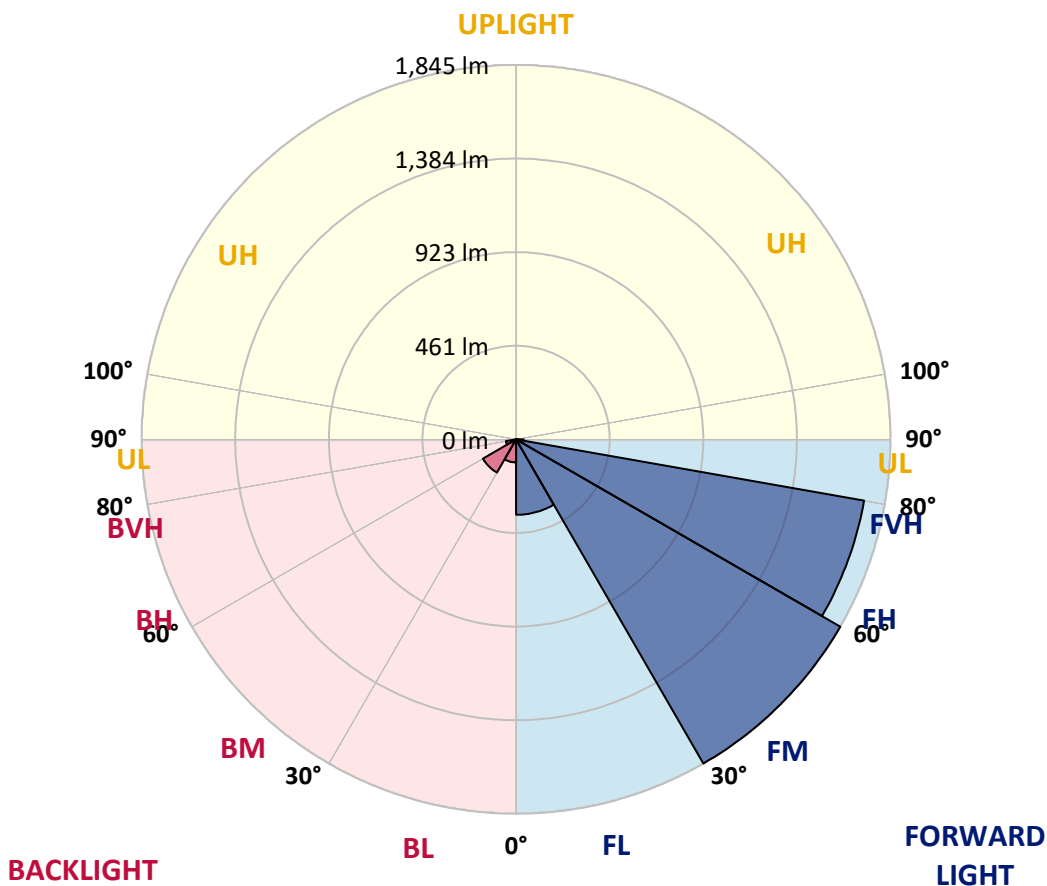
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.9	8.5			
FM (30°-60°)	1845.1	42.4			
FH (60°-80°)	1741.2	40.0			G1/1800
FVH (80°-90°)	36.7	0.8			G1/100
BL (0°-30°)	113.6	2.6	B1/500		
BM (30°-60°)	188.8	4.3	B0/220		
BH (60°-80°)	50.7	1.2	B0/110		G0/110
BVH (80°-90°)	2.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3
2.5°	793.7	796.5	796.1	797.2	794.5	790.1	789.3	783.4	772.7	759.2	744.2
5°	809.9	813.1	810.7	809.5	804.4	799.6	798.4	792.1	779.8	761.6	735.5
7.5°	823.8	824.6	823.0	820.2	812.7	806.3	802.0	793.3	778.6	760.4	730.3
10°	826.1	825.7	826.5	826.9	822.2	816.6	813.1	801.2	782.6	763.2	730.7
12.5°	823.4	823.4	828.5	834.5	834.5	831.7	828.1	817.4	795.7	772.7	738.7
15°	826.9	828.1	838.0	849.1	852.7	849.9	848.3	837.2	814.7	789.3	752.9
17.5°	839.6	840.8	856.6	873.2	877.6	874.4	871.3	860.2	836.0	808.3	769.1
20°	858.2	861.4	881.6	902.9	906.9	902.9	896.6	881.2	857.0	828.9	784.6
22.5°	892.2	894.2	916.0	938.6	940.5	934.2	924.7	903.3	878.0	850.7	802.0
25°	937.4	940.1	961.9	983.7	978.5	969.0	956.0	931.8	902.9	876.4	824.2
27.5°	991.2	994.4	1015.8	1034.8	1021.3	1010.2	995.6	965.5	936.2	912.0	852.7
30°	1049.4	1052.2	1071.2	1088.2	1070.4	1057.3	1039.9	1009.0	979.3	961.1	893.0
32.5°	1105.6	1105.2	1123.4	1137.3	1119.1	1108.8	1092.9	1061.7	1037.9	1030.0	953.2
35°	1157.9	1157.9	1172.9	1186.8	1173.7	1168.2	1153.5	1128.6	1115.1	1124.6	1033.6
37.5°	1210.5	1207.7	1222.0	1237.4	1236.2	1236.6	1228.3	1216.4	1217.2	1250.9	1144.0
40°	1254.1	1252.9	1269.5	1289.7	1305.5	1318.2	1313.0	1317.4	1342.3	1405.3	1285.3
42.5°	1288.9	1291.7	1313.0	1345.1	1385.1	1410.8	1414.4	1432.2	1496.3	1593.7	1444.9
45°	1328.9	1329.3	1359.0	1408.0	1471.8	1512.5	1526.8	1572.7	1663.8	1789.2	1619.8
47.5°	1378.0	1373.2	1406.5	1475.3	1567.6	1627.7	1653.1	1710.5	1851.4	1980.0	1762.3
50°	1432.2	1423.5	1461.1	1554.9	1674.8	1750.1	1801.5	1885.4	2037.4	2136.8	1868.4
52.5°	1495.1	1486.8	1529.6	1646.3	1803.5	1894.9	1961.0	2045.8	2197.0	2256.3	1931.8
55°	1575.1	1566.8	1611.9	1756.0	1955.5	2074.3	2143.5	2214.8	2345.4	2344.6	1977.7
57.5°	1663.8	1652.3	1714.8	1894.5	2145.1	2268.6	2339.1	2373.9	2458.2	2413.1	2008.5
60°	1765.5	1755.2	1841.9	2059.6	2364.0	2478.4	2522.8	2508.5	2550.9	2453.5	1997.9
62.5°	1857.3	1852.6	1960.3	2234.6	2572.6	2669.2	2681.5	2619.3	2618.9	2454.3	1925.8
65°	1952.7	1961.8	2121.8	2436.1	2782.4	2847.4	2826.4	2729.4	2646.3	2357.3	1712.8
67.5°	1988.4	2014.9	2228.2	2618.2	2947.9	2998.6	2961.8	2784.4	2532.7	2031.1	1304.3
70°	1768.3	1818.1	2127.7	2628.4	3016.4	3064.7	2976.4	2636.4	2111.5	1345.5	714.5
72.5°	1344.7	1402.9	1773.0	2152.2	2712.8	2822.8	2672.0	2147.9	1360.9	589.4	239.9
75°	752.5	815.5	1320.6	1620.6	1821.3	1921.9	1866.4	1378.0	602.9	154.0	71.6
77.5°	254.5	275.5	614.4	1002.7	1202.2	1111.9	941.3	684.4	221.7	58.6	38.0
80°	150.8	158.7	228.8	499.2	632.6	524.5	414.1	252.9	112.8	31.3	26.5
82.5°	45.1	53.4	126.3	185.3	247.8	154.4	130.6	144.5	58.6	17.0	22.2
85°	0.0	0.0	26.9	57.4	64.9	25.3	25.3	81.9	10.7	7.1	16.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.0	1.2	1.6	3.6
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°	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3	738.3
2.5°	733.5	719.7	703.4	688.0	673.3	654.3	645.2	634.2	624.7	619.5	622.3
5°	718.9	697.1	663.8	630.2	596.2	564.1	535.2	515.8	498.4	489.3	491.3
7.5°	706.2	676.9	625.0	570.0	515.4	460.4	415.6	380.8	353.9	342.8	340.8
10°	700.7	663.8	590.6	511.4	427.5	353.5	290.2	251.8	224.4	211.0	213.4
12.5°	703.4	657.1	561.3	454.0	345.2	258.9	198.3	162.3	142.9	135.0	133.0
15°	711.3	655.5	535.2	395.5	266.4	180.9	137.0	122.3	118.4	117.6	117.6
17.5°	720.4	655.9	508.3	336.1	202.3	134.2	117.2	114.4	113.2	112.4	112.8
20°	729.6	655.9	477.4	275.9	152.0	116.0	111.6	109.7	108.5	108.1	108.1
22.5°	740.6	655.9	443.0	220.1	121.9	110.0	106.5	105.3	104.1	103.7	103.3
25°	754.1	656.3	405.0	172.2	110.8	104.9	102.1	100.9	99.8	99.0	99.0
27.5°	773.5	659.5	363.0	134.2	104.5	100.2	97.8	96.6	95.4	94.2	94.2
30°	801.6	667.4	315.9	110.8	98.6	95.0	92.6	91.8	90.6	89.5	89.1
32.5°	843.6	681.3	267.2	99.4	93.0	89.5	86.7	85.9	84.7	83.5	83.1
35°	902.1	706.6	219.7	92.2	85.9	82.3	80.8	80.4	78.8	77.6	77.6
37.5°	988.0	747.8	174.2	85.1	80.0	77.2	75.2	74.4	72.8	71.6	71.3
40°	1092.9	801.2	135.4	79.6	74.4	71.6	69.7	68.5	66.5	64.9	64.1
42.5°	1226.7	866.5	106.9	73.6	69.3	66.5	64.9	62.5	59.8	57.4	57.0
45°	1366.1	933.8	88.3	68.1	64.5	62.1	60.2	57.0	53.0	50.3	49.5
47.5°	1473.0	975.8	77.2	62.1	59.4	57.4	55.0	51.1	46.3	43.1	42.4
50°	1549.4	982.1	68.9	56.6	55.0	53.0	49.5	44.7	39.6	36.4	35.6
52.5°	1587.0	953.6	62.1	51.5	50.3	48.3	43.9	38.8	33.3	30.1	29.3
55°	1604.0	899.8	55.8	47.1	45.5	43.1	38.4	32.9	27.3	24.5	23.8
57.5°	1597.3	820.2	50.3	42.8	40.8	38.0	32.9	26.9	22.6	19.8	19.4
60°	1547.4	708.6	44.7	38.4	36.0	32.9	27.7	22.2	18.2	16.2	15.8
62.5°	1439.7	570.0	39.2	33.3	31.7	28.5	23.8	18.2	15.0	13.9	13.5
65°	1219.2	403.0	33.6	28.1	27.3	24.1	19.8	15.0	13.1	12.3	11.9
67.5°	876.4	245.0	28.5	24.1	23.4	20.6	16.6	13.1	11.9	11.5	11.5
70°	440.6	116.0	22.6	19.8	19.8	17.0	14.3	11.9	11.5	11.1	11.1
72.5°	149.6	49.5	17.0	15.4	16.2	14.6	12.3	11.1	11.1	11.1	11.1
75°	51.1	26.1	11.9	11.1	11.9	11.9	10.7	10.7	11.1	11.1	11.1
77.5°	33.3	17.4	8.3	7.5	9.1	9.1	9.1	9.9	10.7	10.7	10.7
80°	27.3	9.5	5.5	5.1	6.7	6.7	7.5	9.1	9.9	9.9	9.9
82.5°	23.4	5.9	3.2	3.6	4.8	5.1	6.3	7.5	8.7	9.1	9.1
85°	15.8	3.2	2.4	2.8	3.2	4.0	5.1	6.3	7.1	7.9	7.9
87.5°	4.4	1.2	1.6	2.0	2.0	2.8	4.0	4.8	5.5	5.9	5.9
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)