

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: P631547

Luminaire Tested: GWS-SA1F-830-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631547  
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-SA1F-830-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, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

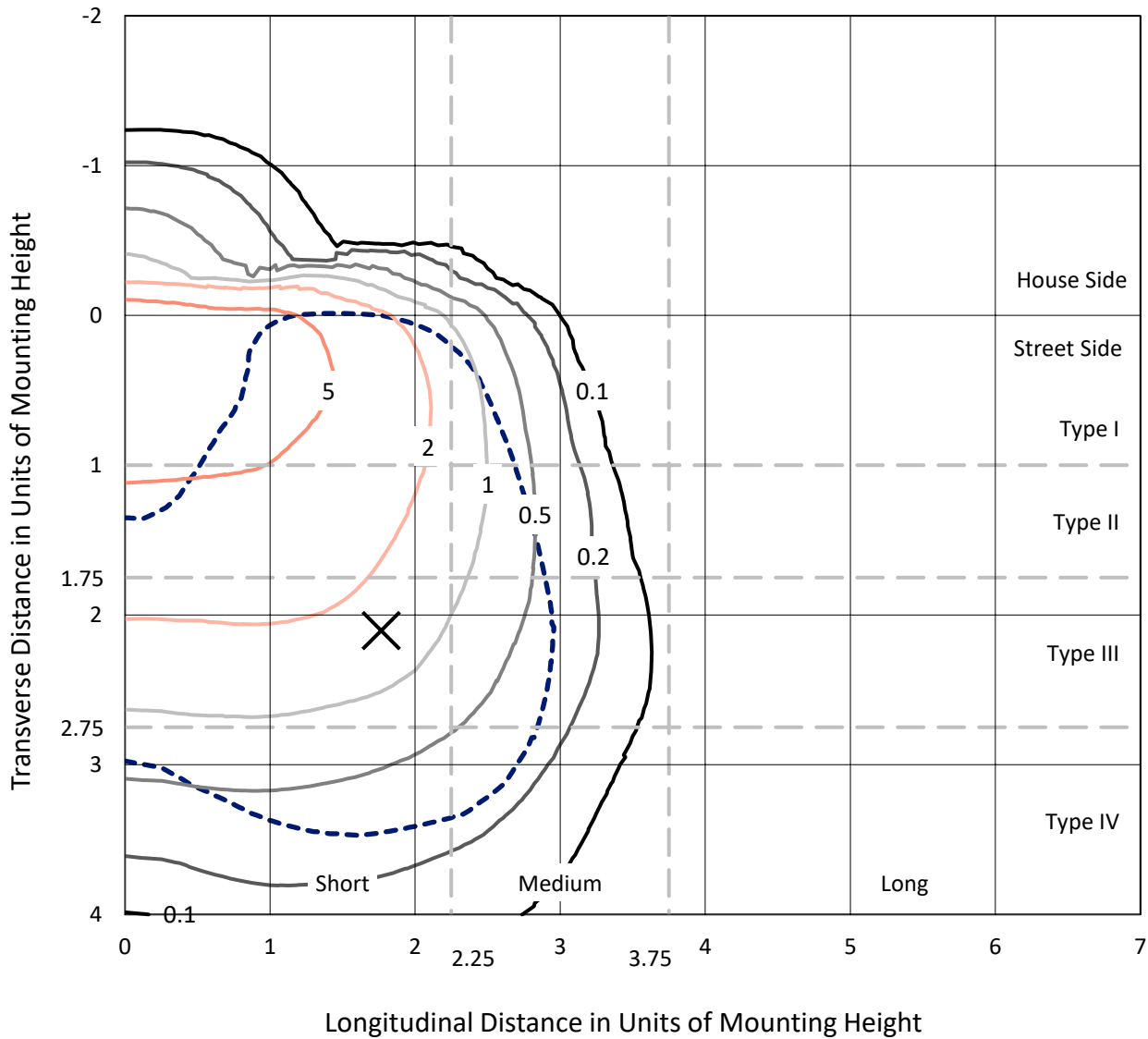
Lumens per Lamp: N/A  
Luminaire Lumens: 5273.2 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

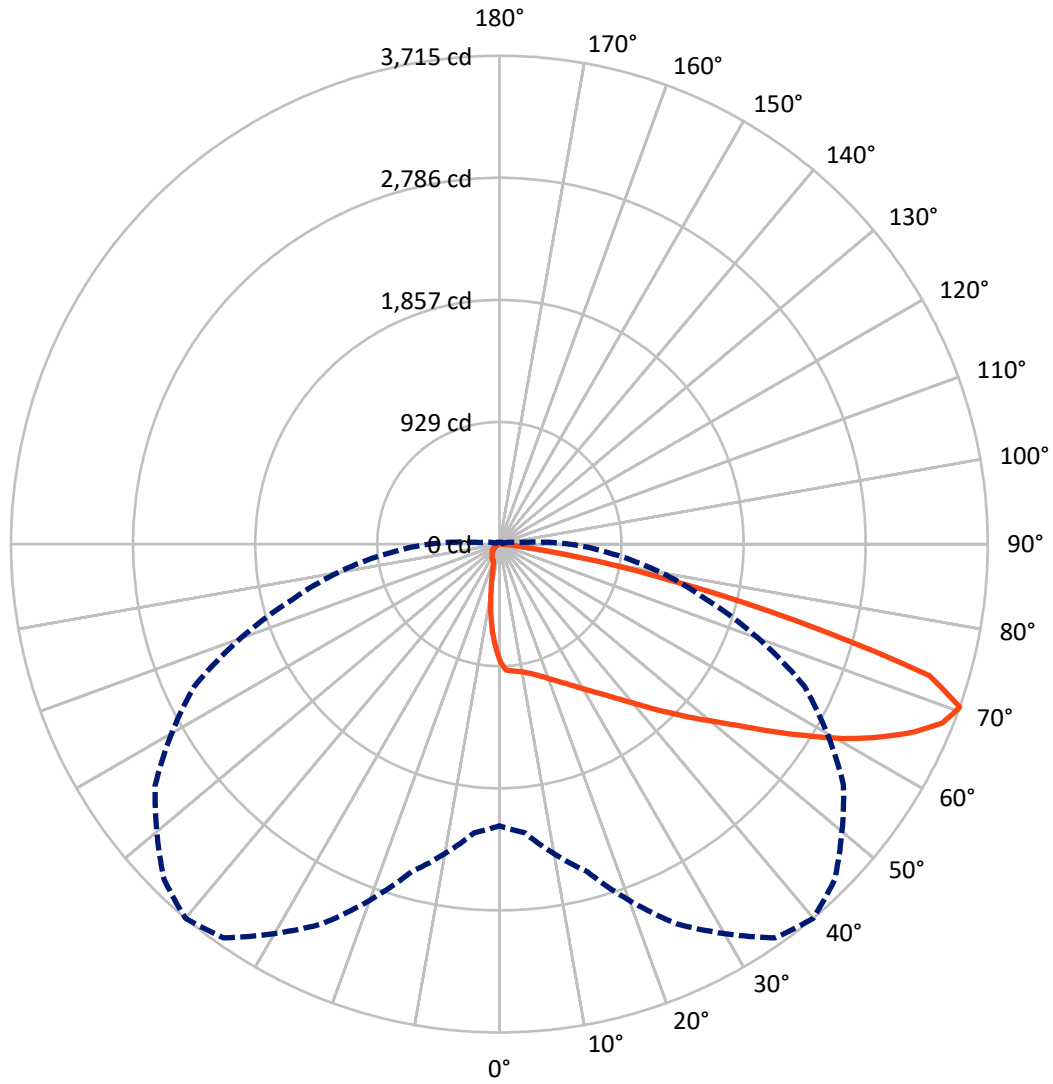
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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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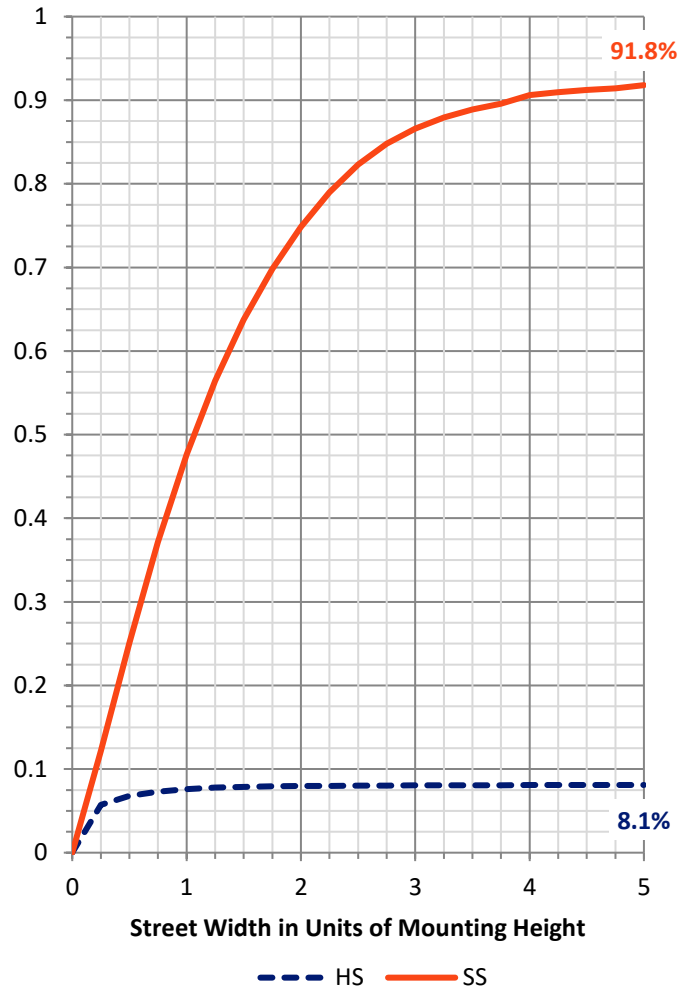
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	431.2	0.0	431.2
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	4842.0	0.0	4842.0
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	5273.2	0.0	5273.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.6	1.4
10°-20°	191.8	3.6
20°-30°	321.0	6.1
30°-40°	504.2	9.6
40°-50°	797.5	15.1
50°-60°	1163.4	22.1
60°-70°	1442.2	27.4
70°-80°	729.7	13.8
80°-90°	47.6	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°	5273.2	100.0
0°-180°	5273.2	100.0

**Coefficient of Utilization**



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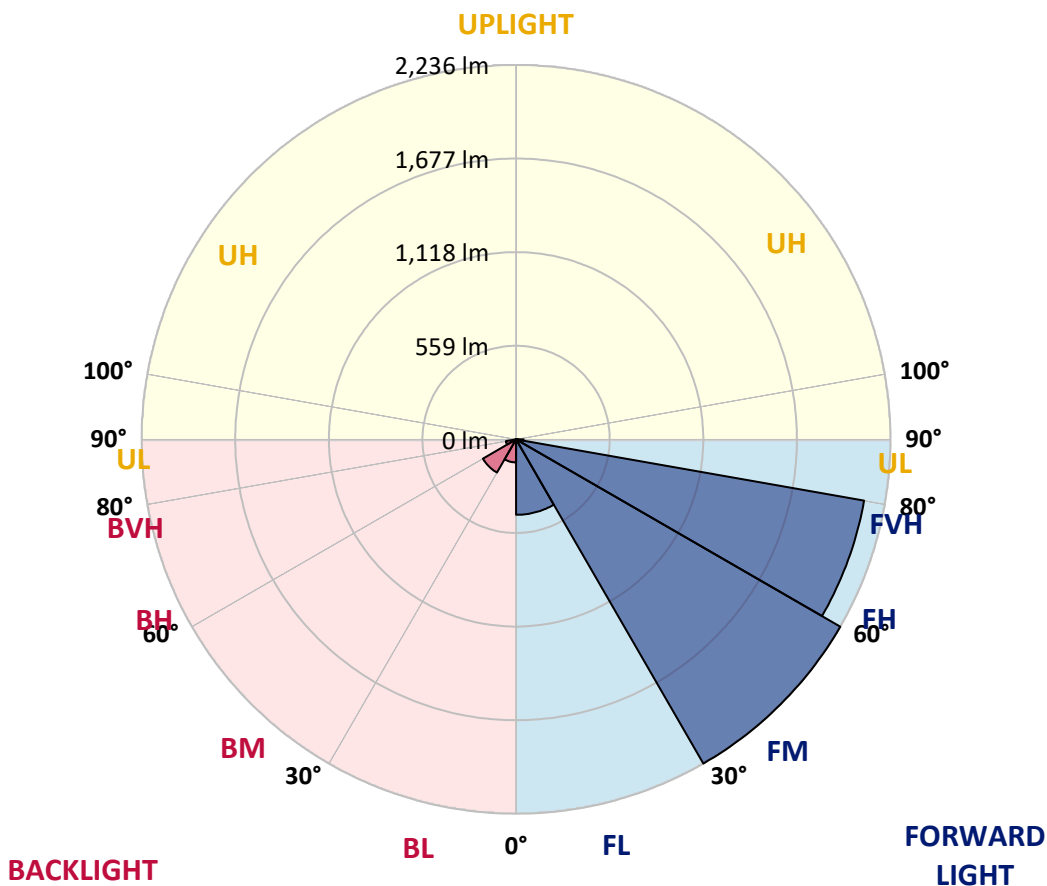
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.8	8.5			
FM (30°-60°)	2236.3	42.4			
FH (60°-80°)	2110.4	40.0			G2/5000
FVH (80°-90°)	44.5	0.8			G1/100
BL (0°-30°)	137.7	2.6	B1/500		
BM (30°-60°)	228.9	4.3	B1/1000		
BH (60°-80°)	61.5	1.2	B0/110		G0/110
BVH (80°-90°)	3.1	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	962.0	965.3	964.8	966.3	962.9	957.7	956.7	949.5	936.5	920.2	902.0
5°	981.6	985.5	982.6	981.2	974.9	969.2	967.7	960.0	945.2	923.1	891.4
7.5°	998.4	999.4	997.5	994.1	985.0	977.3	972.0	961.5	943.7	921.7	885.2
10°	1001.3	1000.8	1001.8	1002.3	996.5	989.8	985.5	971.1	948.5	925.0	885.7
12.5°	998.0	998.0	1004.2	1011.4	1011.4	1008.0	1003.7	990.8	964.4	936.5	895.3
15°	1002.3	1003.7	1015.7	1029.1	1033.5	1030.1	1028.2	1014.7	987.4	956.7	912.6
17.5°	1017.6	1019.1	1038.3	1058.4	1063.7	1059.8	1056.0	1042.6	1013.3	979.7	932.2
20°	1040.2	1044.0	1068.5	1094.4	1099.2	1094.4	1086.7	1068.0	1038.7	1004.7	950.9
22.5°	1081.4	1083.8	1110.2	1137.6	1140.0	1132.3	1120.8	1094.9	1064.2	1031.1	972.0
25°	1136.1	1139.5	1165.9	1192.3	1186.0	1174.5	1158.7	1129.4	1094.4	1062.2	998.9
27.5°	1201.4	1205.2	1231.1	1254.2	1237.8	1224.4	1206.7	1170.2	1134.7	1105.4	1033.5
30°	1271.9	1275.3	1298.3	1318.9	1297.3	1281.5	1260.4	1223.0	1187.0	1164.9	1082.4
32.5°	1340.0	1339.6	1361.6	1378.4	1356.4	1343.9	1324.7	1286.8	1258.0	1248.4	1155.3
35°	1403.4	1403.4	1421.6	1438.4	1422.6	1415.8	1398.1	1367.9	1351.6	1363.1	1252.7
37.5°	1467.2	1463.8	1481.1	1499.8	1498.4	1498.8	1488.8	1474.4	1475.3	1516.1	1386.6
40°	1520.0	1518.5	1538.7	1563.1	1582.3	1597.7	1591.4	1596.7	1627.0	1703.2	1557.9
42.5°	1562.2	1565.5	1591.4	1630.3	1678.8	1710.0	1714.3	1735.9	1813.6	1931.6	1751.2
45°	1610.6	1611.1	1647.1	1706.6	1783.8	1833.3	1850.5	1906.2	2016.5	2168.6	1963.3
47.5°	1670.1	1664.4	1704.7	1788.2	1899.9	1972.9	2003.6	2073.2	2244.0	2399.9	2136.0
50°	1735.9	1725.3	1770.9	1884.6	2030.0	2121.1	2183.5	2285.2	2469.5	2589.9	2264.6
52.5°	1812.1	1802.1	1853.9	1995.4	2185.9	2296.7	2376.9	2479.5	2662.8	2734.8	2341.4
55°	1909.1	1899.0	1953.7	2128.3	2370.1	2514.1	2598.0	2684.4	2842.7	2841.8	2397.0
57.5°	2016.5	2002.6	2078.4	2296.3	2600.0	2749.6	2835.0	2877.3	2979.5	2924.8	2434.4
60°	2139.8	2127.4	2232.4	2496.3	2865.3	3003.9	3057.7	3040.4	3091.7	2973.7	2421.5
62.5°	2251.2	2245.4	2375.9	2708.4	3118.1	3235.2	3250.1	3174.7	3174.3	2974.7	2334.2
65°	2366.8	2377.8	2571.6	2952.6	3372.4	3451.1	3425.7	3308.1	3207.4	2857.1	2076.0
67.5°	2410.0	2442.1	2700.7	3173.3	3573.0	3634.4	3589.8	3374.8	3069.7	2461.8	1580.9
70°	2143.2	2203.7	2578.8	3185.8	3656.0	3714.5	3607.5	3195.4	2559.2	1630.8	866.0
72.5°	1629.8	1700.4	2149.0	2608.6	3288.0	3421.3	3238.5	2603.3	1649.5	714.4	290.7
75°	912.1	988.4	1600.6	1964.2	2207.5	2329.4	2262.2	1670.1	730.7	186.6	86.8
77.5°	308.5	333.9	744.6	1215.3	1457.1	1347.7	1140.9	829.5	268.7	71.0	46.1
80°	182.8	192.4	277.3	605.0	766.7	635.7	501.9	306.6	136.7	37.9	32.1
82.5°	54.7	64.8	153.1	224.5	300.3	187.1	158.3	175.1	71.0	20.6	26.9
85°	0.0	0.0	32.6	69.6	78.7	30.7	30.7	99.3	13.0	8.6	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.4	1.4	1.9	4.3
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°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	889.0	872.2	852.6	833.9	816.1	793.1	782.0	768.6	757.1	750.9	754.2
5°	871.3	844.9	804.6	763.8	722.6	683.7	648.7	625.2	604.0	593.0	595.4
7.5°	855.9	820.4	757.6	690.9	624.7	558.0	503.8	461.6	428.9	415.5	413.1
10°	849.2	804.6	715.8	619.9	518.2	428.4	351.7	305.1	272.0	255.7	258.6
12.5°	852.6	796.4	680.3	550.3	418.4	313.8	240.4	196.7	173.2	163.6	161.2
15°	862.2	794.5	648.7	479.3	322.9	219.3	166.0	148.3	143.5	142.5	142.5
17.5°	873.2	795.0	616.0	407.3	245.2	162.6	142.0	138.7	137.2	136.3	136.7
20°	884.2	795.0	578.6	334.4	184.2	140.6	135.3	132.9	131.5	131.0	131.0
22.5°	897.7	795.0	536.9	266.8	147.8	133.4	129.1	127.6	126.2	125.7	125.2
25°	914.0	795.5	490.8	208.7	134.3	127.1	123.8	122.3	120.9	119.9	119.9
27.5°	937.5	799.3	440.0	162.6	126.7	121.4	118.5	117.1	115.6	114.2	114.2
30°	971.6	808.9	382.9	134.3	119.5	115.1	112.3	111.3	109.9	108.4	108.0
32.5°	1022.4	825.7	323.9	120.4	112.7	108.4	105.1	104.1	102.7	101.2	100.8
35°	1093.4	856.4	266.3	111.8	104.1	99.8	97.9	97.4	95.5	94.0	94.0
37.5°	1197.5	906.3	211.1	103.2	96.9	93.6	91.2	90.2	88.3	86.8	86.4
40°	1324.7	971.1	164.1	96.4	90.2	86.8	84.4	83.0	80.6	78.7	77.7
42.5°	1486.9	1050.2	129.5	89.2	84.0	80.6	78.7	75.8	72.4	69.6	69.1
45°	1655.7	1131.8	107.0	82.5	78.2	75.3	72.9	69.1	64.3	60.9	60.0
47.5°	1785.3	1182.7	93.6	75.3	72.0	69.6	66.7	61.9	56.1	52.3	51.3
50°	1877.9	1190.3	83.5	68.6	66.7	64.3	60.0	54.2	48.0	44.1	43.2
52.5°	1923.5	1155.8	75.3	62.4	60.9	58.5	53.3	47.0	40.3	36.5	35.5
55°	1944.1	1090.6	67.6	57.1	55.2	52.3	46.5	39.8	33.1	29.7	28.8
57.5°	1935.9	994.1	60.9	51.8	49.4	46.1	39.8	32.6	27.3	24.0	23.5
60°	1875.5	858.8	54.2	46.5	43.7	39.8	33.6	26.9	22.1	19.7	19.2
62.5°	1745.0	690.9	47.5	40.3	38.4	34.5	28.8	22.1	18.2	16.8	16.3
65°	1477.7	488.4	40.8	34.1	33.1	29.3	24.0	18.2	15.8	14.9	14.4
67.5°	1062.2	297.0	34.5	29.3	28.3	24.9	20.2	15.8	14.4	13.9	13.9
70°	534.0	140.6	27.3	24.0	24.0	20.6	17.3	14.4	13.9	13.4	13.4
72.5°	181.4	60.0	20.6	18.7	19.7	17.8	14.9	13.4	13.4	13.4	13.4
75°	61.9	31.7	14.4	13.4	14.4	14.4	13.0	13.0	13.4	13.4	13.4
77.5°	40.3	21.1	10.1	9.1	11.0	11.0	11.0	12.0	13.0	13.0	13.0
80°	33.1	11.5	6.7	6.2	8.2	8.2	9.1	11.0	12.0	12.0	12.0
82.5°	28.3	7.2	3.8	4.3	5.8	6.2	7.7	9.1	10.6	11.0	11.0
85°	19.2	3.8	2.9	3.4	3.8	4.8	6.2	7.7	8.6	9.6	9.6
87.5°	5.3	1.4	1.9	2.4	2.4	3.4	4.8	5.8	6.7	7.2	7.2
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)