

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: P633057

Luminaire Tested: GWS-SA2D-830-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-830-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

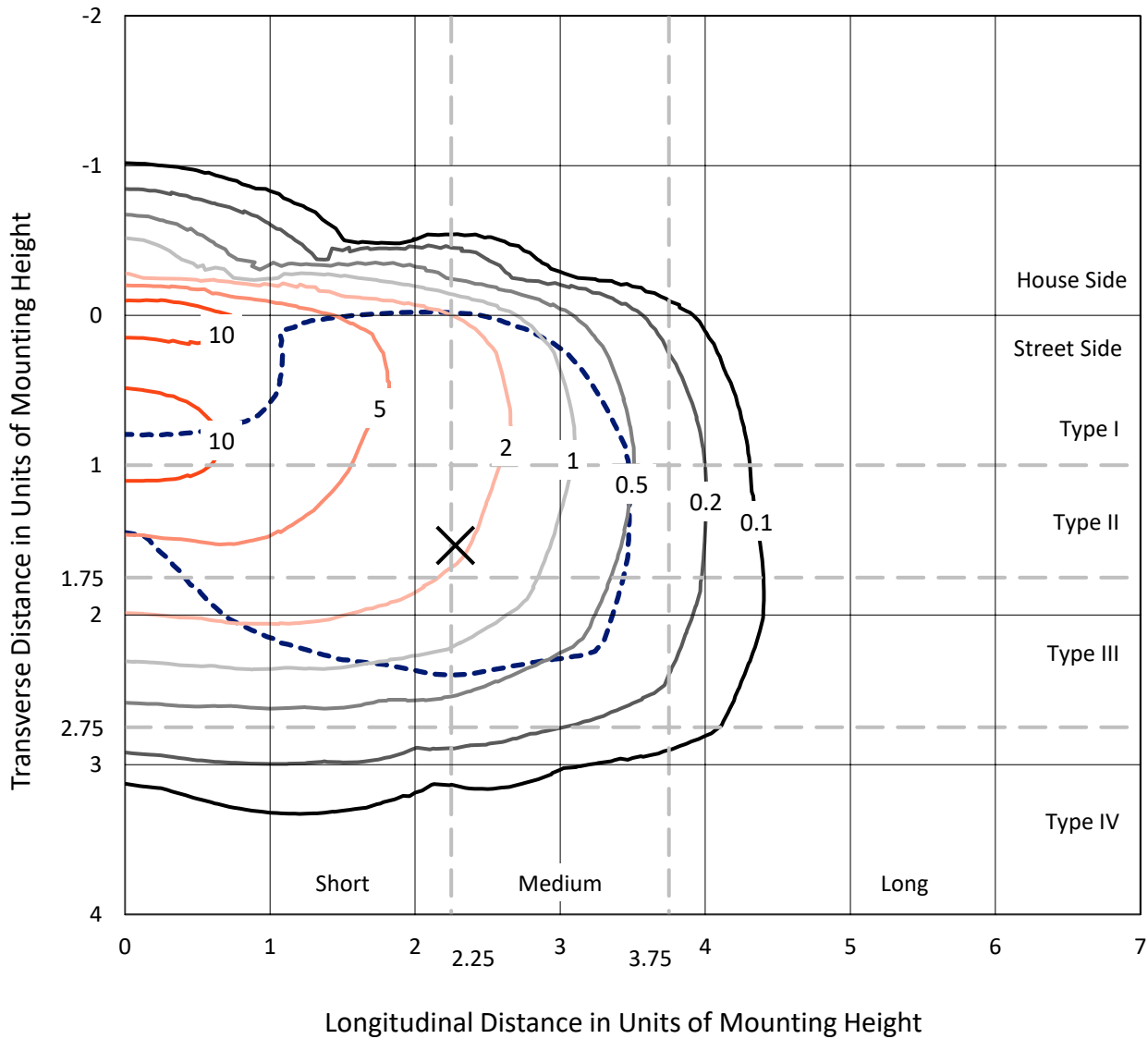
Lumens per Lamp: N/A  
Luminaire Lumens: 7261 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

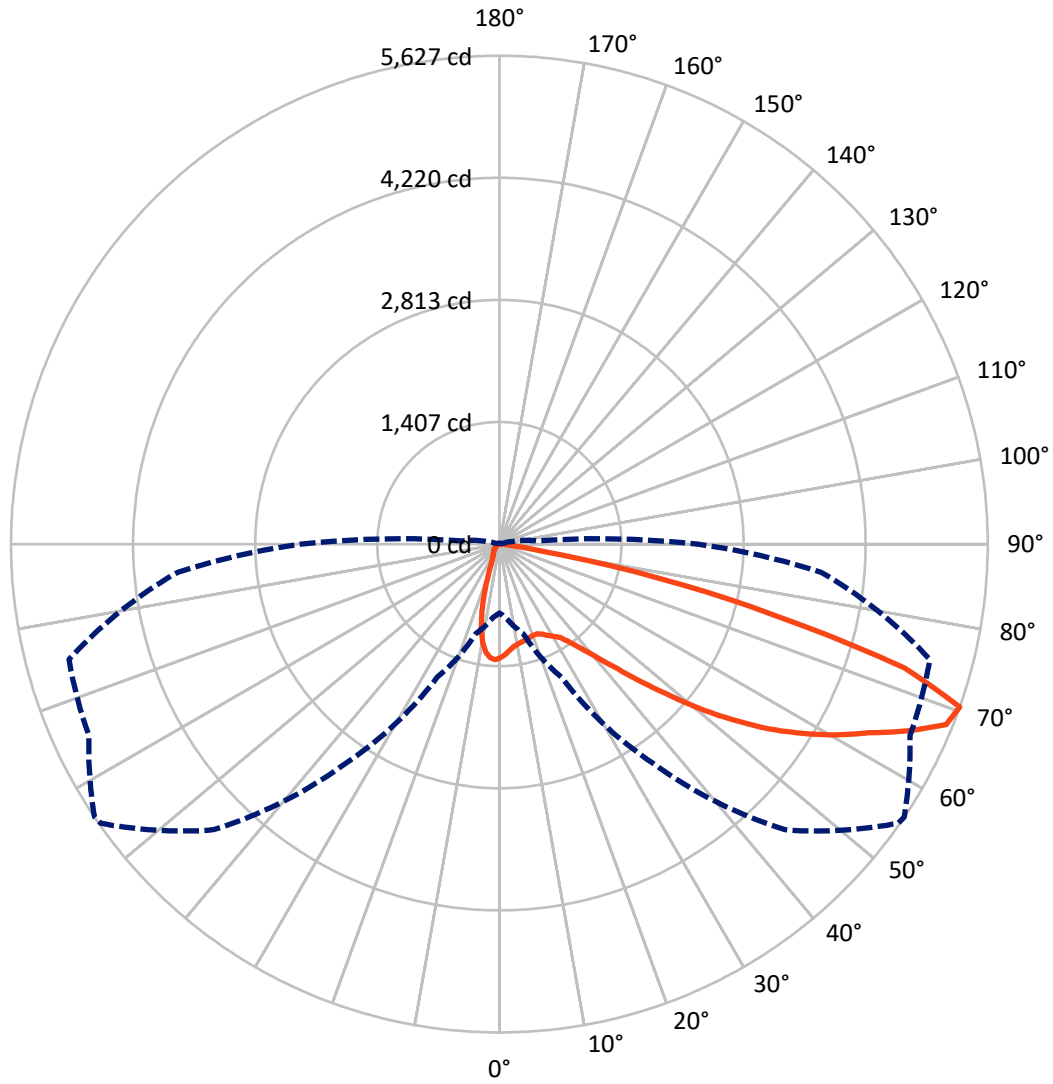
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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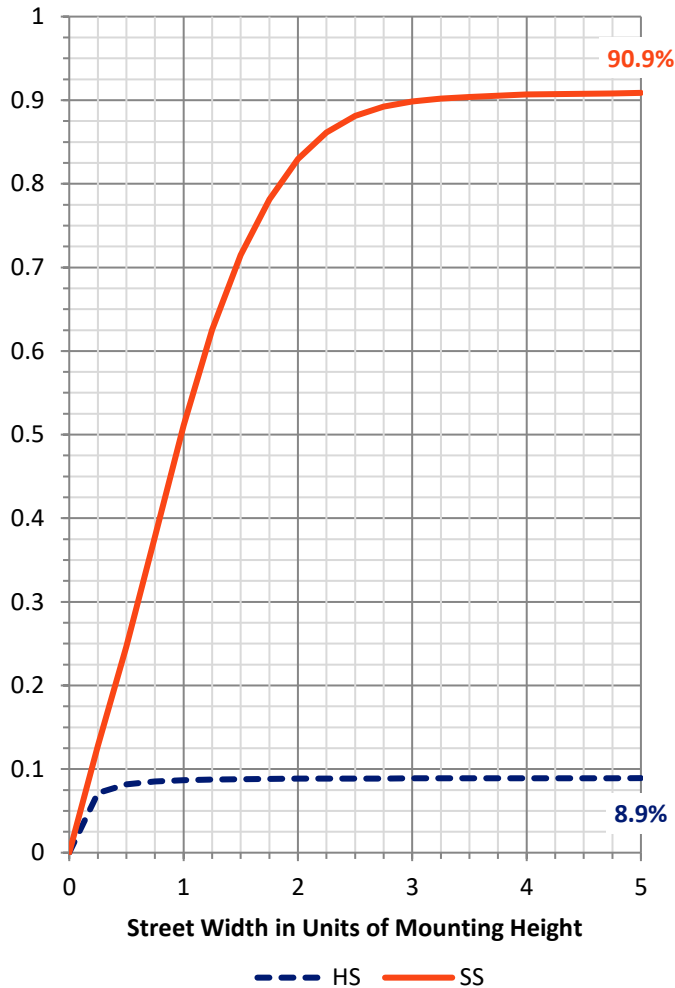
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	652.2	0.0	652.2
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	6608.8	0.0	6608.8
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	7261.0	0.0	7261.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	1.5
10°-20°	252.8	3.5
20°-30°	400.5	5.5
30°-40°	690.6	9.5
40°-50°	1166.2	16.1
50°-60°	1713.5	23.6
60°-70°	2031.5	28.0
70°-80°	866.3	11.9
80°-90°	27.2	0.4
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°	7261.0	100.0
0°-180°	7261.0	100.0

**Coefficient of Utilization**



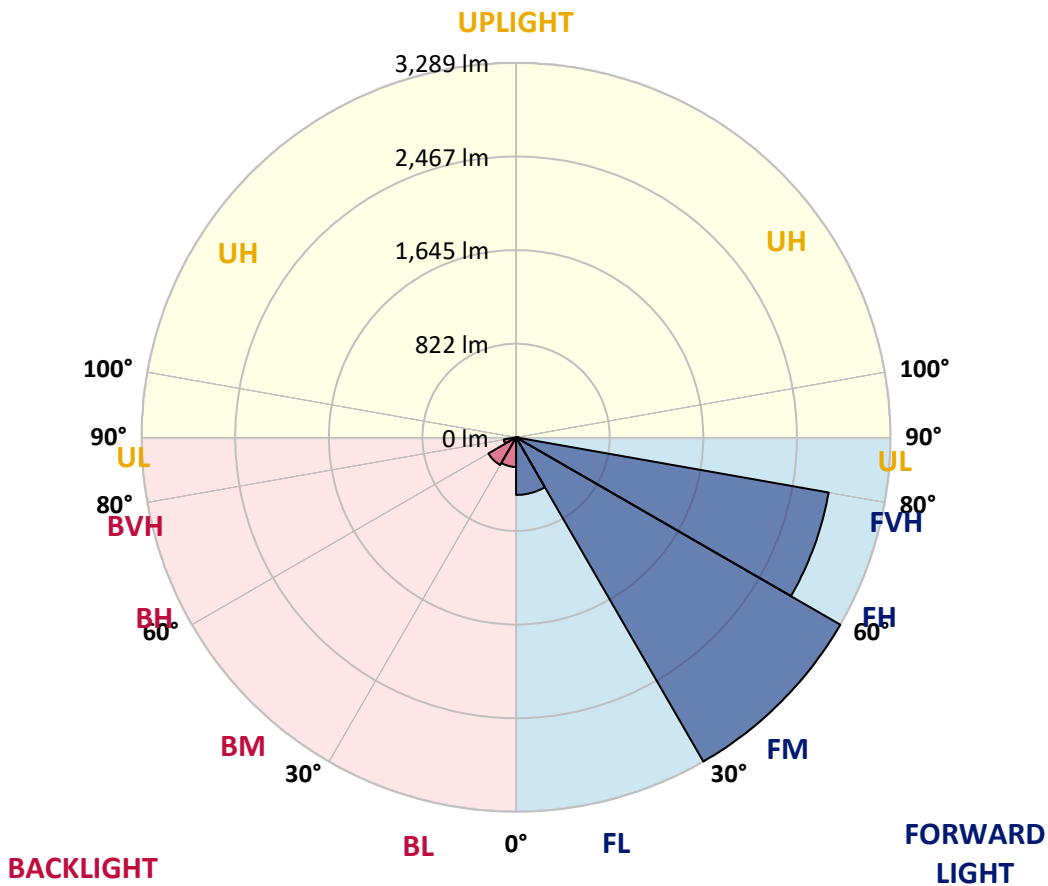
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.0	7.0			
FM (30°-60°)	3289.4	45.3			
FH (60°-80°)	2789.0	38.4			G2/5000
FVH (80°-90°)	24.4	0.3			G1/100
BL (0°-30°)	259.7	3.6	B1/500		
BM (30°-60°)	280.9	3.9	B1/1000		
BH (60°-80°)	108.8	1.5	B0/110		G0/110
BVH (80°-90°)	2.8	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2
2.5°	1218.8	1216.8	1218.1	1228.1	1246.7	1255.4	1270.0	1272.7	1284.6	1299.9	1305.9
5°	1139.7	1133.0	1136.4	1150.3	1171.6	1195.5	1222.8	1230.1	1260.0	1293.9	1319.2
7.5°	1067.2	1059.9	1067.9	1089.8	1119.7	1145.7	1186.2	1190.9	1238.7	1298.6	1344.5
10°	953.5	955.5	971.5	1010.0	1055.9	1109.8	1164.3	1170.9	1230.1	1313.9	1385.0
12.5°	866.4	861.7	879.0	922.9	987.4	1065.9	1147.7	1156.3	1230.8	1337.2	1436.9
15°	825.8	824.5	831.8	863.7	926.2	1018.7	1132.4	1143.7	1239.4	1358.4	1486.1
17.5°	827.2	825.2	824.5	843.1	889.7	983.4	1115.7	1130.4	1246.7	1381.7	1538.0
20°	885.0	875.7	859.1	850.4	878.4	960.8	1104.4	1121.1	1257.4	1406.3	1593.2
22.5°	1006.0	1009.4	964.8	918.3	905.0	963.5	1103.1	1122.4	1280.6	1444.9	1661.0
25°	1248.1	1242.7	1160.3	1055.9	983.4	994.1	1126.4	1149.7	1326.5	1500.1	1724.8
27.5°	1551.3	1555.9	1442.9	1276.7	1125.0	1057.2	1168.9	1192.2	1379.7	1534.6	1767.4
30°	1881.7	1877.1	1756.1	1571.9	1325.9	1162.3	1211.5	1232.1	1406.3	1553.3	1811.2
32.5°	2194.2	2183.6	2063.9	1871.1	1581.8	1327.8	1270.0	1282.0	1441.6	1593.8	1870.4
35°	2460.9	2460.2	2355.8	2150.4	1845.2	1535.3	1370.4	1380.4	1507.4	1658.3	1957.5
37.5°	2736.2	2726.8	2609.8	2422.3	2115.8	1762.7	1524.0	1520.0	1611.1	1753.4	2064.6
40°	2962.2	2956.2	2866.5	2686.3	2397.0	2014.0	1710.2	1698.2	1734.1	1885.1	2213.5
42.5°	3129.8	3130.5	3102.5	2992.8	2694.9	2304.6	1944.2	1925.6	1924.9	2083.9	2410.3
45°	3256.8	3265.4	3307.3	3290.7	3046.7	2643.1	2244.1	2224.8	2192.2	2341.9	2635.8
47.5°	3316.0	3327.3	3453.6	3520.1	3354.5	2978.9	2601.2	2560.6	2496.8	2685.0	2887.8
50°	3310.0	3329.9	3506.1	3708.3	3633.8	3319.3	2990.2	2970.9	2866.5	3048.0	3137.1
52.5°	3174.3	3216.9	3509.5	3822.6	3848.6	3633.1	3392.4	3356.5	3306.0	3427.0	3371.2
55°	2806.0	2857.8	3369.2	3859.2	4016.1	3907.1	3786.1	3756.8	3673.0	3784.7	3575.3
57.5°	2605.8	2650.4	3073.9	3841.3	4158.4	4160.4	4136.5	4112.5	4043.4	4138.5	3814.7
60°	2485.5	2530.0	2916.3	3775.4	4287.4	4427.7	4465.6	4463.0	4363.2	4540.8	4095.3
62.5°	2309.3	2370.4	2752.1	3604.5	4379.2	4691.0	4805.4	4787.4	4676.4	4959.7	4373.2
65°	1953.5	2006.7	2415.7	3322.6	4325.3	4909.1	5173.8	5183.1	5054.7	5354.0	4592.6
67.5°	1369.7	1409.0	1815.2	2730.8	3959.6	4980.9	5550.8	5550.1	5331.3	5556.1	4495.5
70°	793.9	847.8	1072.5	1688.2	3080.6	4654.5	5607.3	5626.6	5219.0	5133.9	3720.2
72.5°	307.2	351.7	607.7	897.0	1606.5	3565.3	4823.3	4879.9	4367.9	3960.3	2589.2
75°	91.8	102.4	285.9	477.4	645.0	1722.1	3265.4	3281.4	2996.1	2470.2	1327.2
77.5°	68.5	75.8	125.0	241.4	226.1	522.0	1689.6	1845.2	1590.5	882.4	365.7
80°	46.5	55.2	89.1	117.7	83.8	139.0	474.8	521.3	485.4	198.1	91.8
82.5°	20.6	26.6	63.2	59.2	30.6	39.9	146.3	155.6	100.4	59.8	31.9
85°	2.0	2.7	23.9	25.9	11.3	9.3	30.6	30.6	21.9	20.6	13.3
87.5°	0.0	0.0	0.7	1.3	1.3	2.0	2.7	3.3	4.0	5.3	6.6
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°	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2	1309.2
2.5°	1321.2	1313.2	1323.2	1331.2	1333.2	1318.5	1309.9	1297.3	1294.6	1295.3	1291.9
5°	1339.2	1335.2	1342.5	1333.8	1311.2	1268.7	1232.1	1191.5	1169.6	1157.0	1155.6
7.5°	1372.4	1370.4	1362.4	1323.2	1252.7	1158.3	1067.2	978.1	922.9	903.0	899.6
10°	1421.6	1417.6	1385.0	1291.9	1141.7	960.1	807.2	679.6	601.8	579.1	551.2
12.5°	1478.1	1470.1	1399.0	1224.8	974.1	722.8	531.9	389.0	321.8	301.9	301.9
15°	1532.6	1515.4	1391.0	1113.7	768.0	470.1	297.2	224.7	204.1	198.8	198.8
17.5°	1588.5	1555.3	1359.8	962.1	530.6	277.9	198.1	184.2	181.5	182.2	182.9
20°	1641.0	1589.2	1304.6	780.0	338.4	194.2	177.5	174.2	172.9	174.2	173.5
22.5°	1698.2	1620.4	1220.8	581.1	220.1	174.9	168.9	166.2	164.9	166.9	166.9
25°	1754.7	1643.0	1109.8	391.0	174.9	162.9	159.6	156.9	155.6	156.3	156.3
27.5°	1784.0	1634.4	964.1	249.3	156.9	150.9	147.6	144.3	142.3	141.6	142.3
30°	1803.9	1607.8	785.9	177.5	142.3	135.0	131.7	129.0	123.7	120.4	121.7
32.5°	1835.2	1581.2	592.4	148.9	130.3	119.0	113.7	107.1	99.7	96.4	96.4
35°	1872.4	1544.6	415.6	134.3	117.7	105.7	95.7	84.4	75.8	73.1	73.1
37.5°	1921.6	1510.0	276.6	124.3	107.1	94.4	80.5	67.2	57.8	56.5	55.9
40°	1995.4	1480.8	194.8	117.0	97.7	82.5	65.8	51.9	45.2	43.2	43.2
42.5°	2091.2	1450.9	154.3	109.7	89.8	71.1	52.5	41.2	35.9	34.6	33.9
45°	2209.5	1415.6	134.3	103.1	81.8	59.2	41.9	34.6	30.6	29.3	29.3
47.5°	2337.9	1367.7	125.0	94.4	72.5	47.9	35.2	29.9	27.9	27.3	26.6
50°	2464.2	1303.2	117.0	86.4	61.8	39.2	30.6	27.3	25.9	25.3	25.3
52.5°	2574.6	1228.1	107.1	77.1	50.5	33.9	27.3	25.3	23.9	22.6	21.9
55°	2669.0	1146.3	94.4	66.5	41.2	29.9	25.3	23.3	21.9	20.6	19.9
57.5°	2790.7	1099.8	75.8	53.9	33.9	26.6	23.3	21.3	19.9	18.0	18.0
60°	2925.7	1065.9	56.5	42.6	29.3	24.6	21.3	19.3	18.0	16.0	16.0
62.5°	3034.0	1015.3	44.5	34.6	25.3	21.9	19.3	17.3	16.0	14.0	14.0
65°	3075.3	910.9	36.6	27.3	20.6	19.3	17.3	16.0	14.0	12.0	12.0
67.5°	2889.1	702.2	30.6	21.9	17.3	16.6	15.3	14.6	12.0	10.6	10.0
70°	2288.0	428.2	25.3	18.0	14.6	14.0	14.0	12.6	10.6	10.0	9.3
72.5°	1567.9	220.8	20.6	14.6	12.6	12.6	12.0	11.3	10.0	9.3	9.3
75°	814.5	73.8	16.0	11.3	10.0	10.6	10.6	10.0	9.3	9.3	8.6
77.5°	233.4	33.2	12.0	8.6	8.0	8.0	8.6	8.6	8.6	8.0	8.0
80°	60.5	19.3	8.6	6.6	6.6	6.6	6.6	7.3	8.0	7.3	7.3
82.5°	24.6	10.6	6.0	5.3	5.3	5.3	5.3	6.0	6.6	6.6	6.6
85°	15.3	5.3	4.7	4.7	4.7	4.0	4.0	4.7	4.7	5.3	5.3
87.5°	9.3	4.0	4.0	4.0	4.0	3.3	3.3	3.3	3.3	3.3	3.3
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)