

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: P631044

Luminaire Tested: GWS-SA1E-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

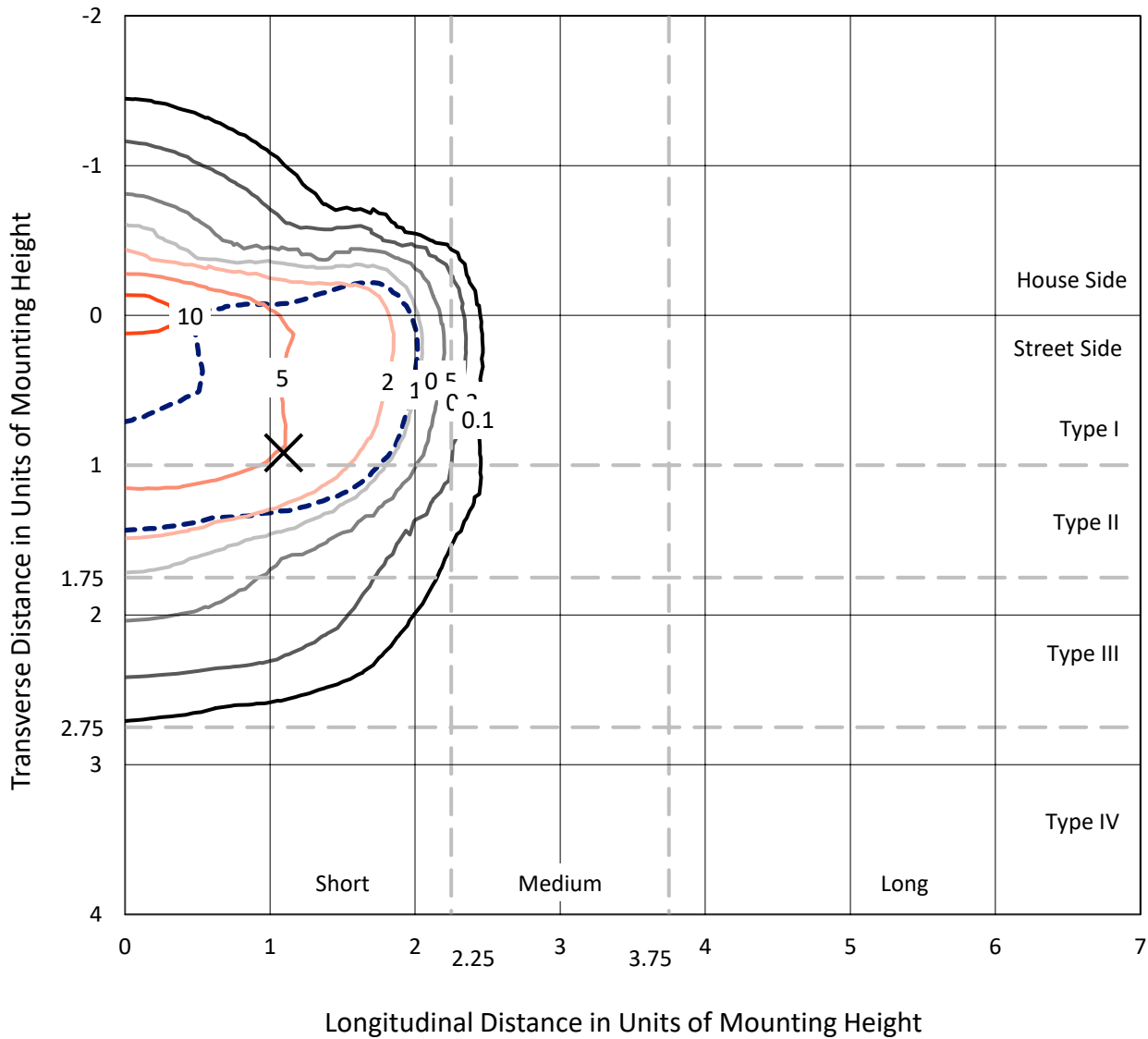
Lumens per Lamp: N/A  
Luminaire Lumens: 3534.6 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

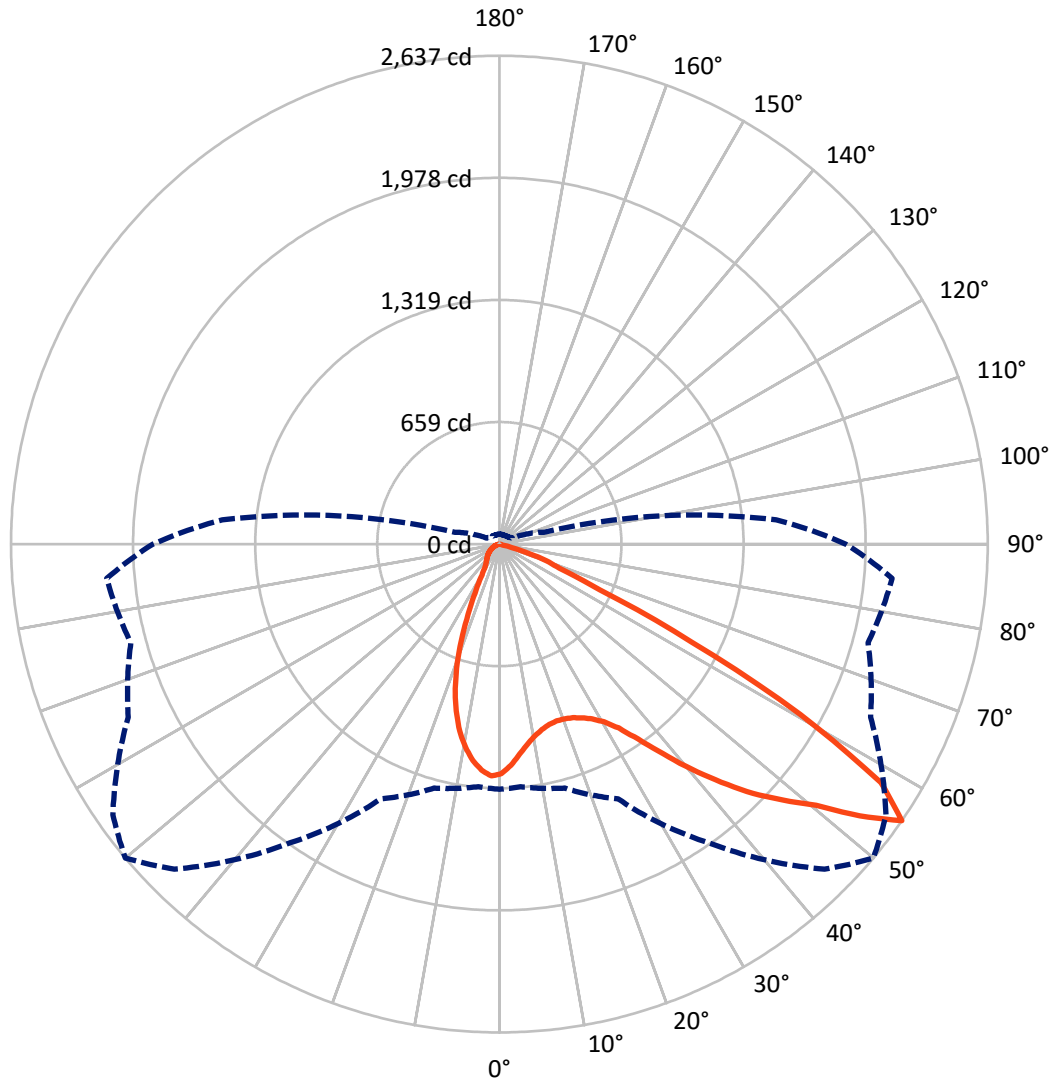
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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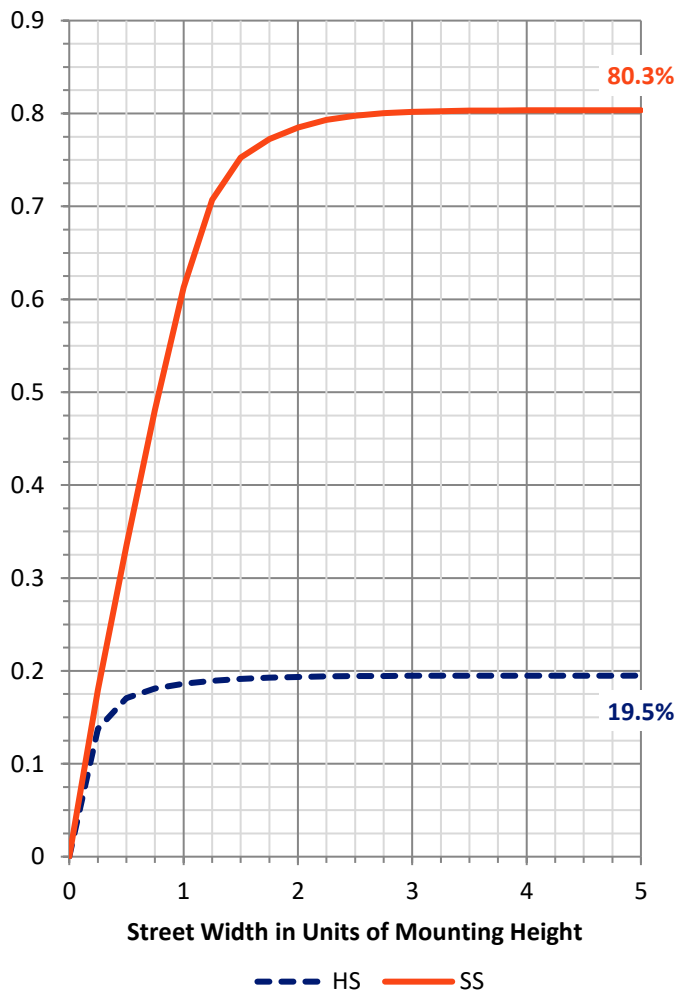
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	696.5	0.0	696.5
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	2838.1	0.0	2838.1
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	3534.6	0.0	3534.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	3.1
10°-20°	268.0	7.6
20°-30°	378.0	10.7
30°-40°	559.4	15.8
40°-50°	807.1	22.8
50°-60°	952.0	26.9
60°-70°	424.7	12.0
70°-80°	36.5	1.0
80°-90°	0.0	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°	3534.6	100.0
0°-180°	3534.6	100.0

**Coefficient of Utilization**



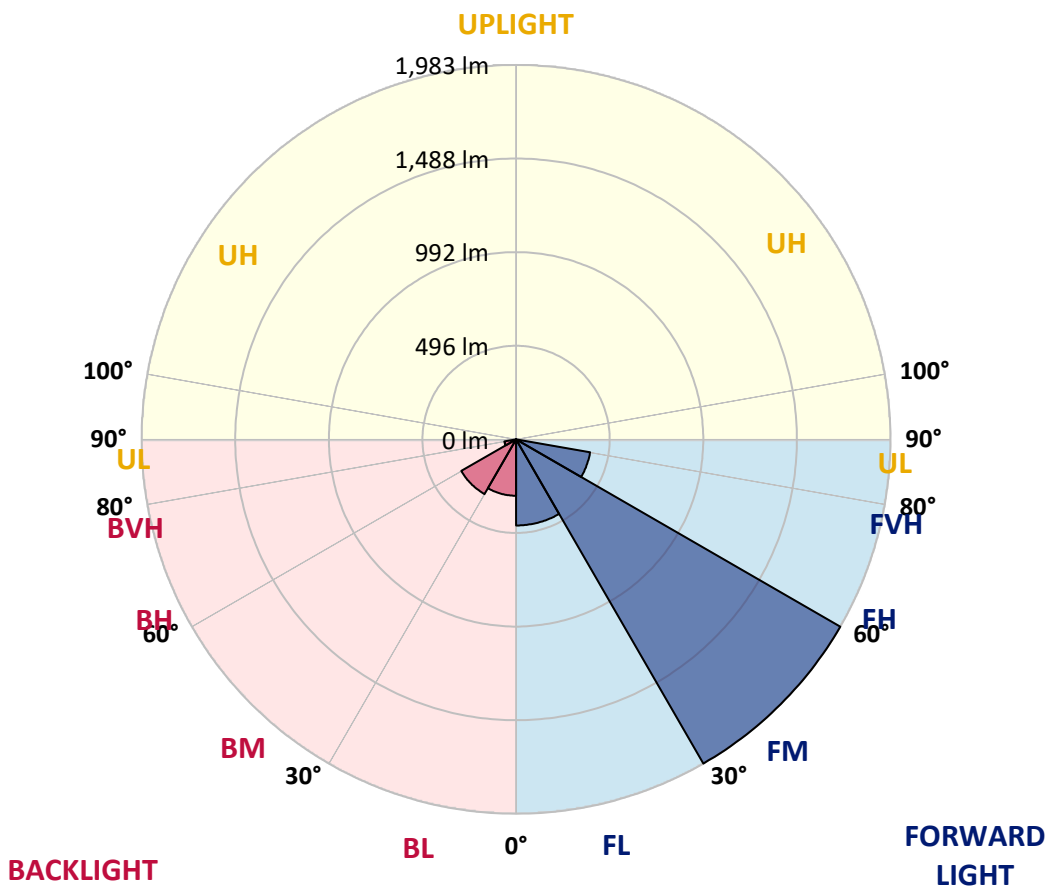
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.3	12.9			
FM (30°-60°)	1983.5	56.1			
FH (60°-80°)	398.3	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	298.6	8.4	B1/500		
BM (30°-60°)	335.0	9.5	B1/1000		
BH (60°-80°)	62.9	1.8	B0/110		G0/110
BVH (80°-90°)	0.0	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°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1152.1	1153.0	1153.4	1165.1	1169.4	1186.6	1195.7	1200.4	1212.9	1227.6	1239.7
5°	1074.9	1073.6	1075.7	1090.4	1099.9	1125.4	1139.2	1148.7	1176.3	1210.8	1239.7
7.5°	1007.6	1010.1	1012.7	1028.7	1042.9	1070.6	1090.4	1104.6	1143.0	1194.4	1243.2
10°	960.1	960.1	964.0	982.1	998.9	1033.0	1052.9	1071.0	1116.7	1179.7	1247.0
12.5°	925.1	925.6	930.3	951.0	970.4	1005.8	1026.5	1044.2	1094.7	1165.1	1247.9
15°	908.7	907.4	911.3	933.3	954.9	988.1	1009.7	1027.0	1079.2	1156.9	1252.2
17.5°	904.4	903.6	906.6	928.2	950.2	982.5	1003.7	1020.9	1077.0	1159.4	1265.2
20°	916.9	915.2	913.9	932.5	953.2	985.1	1007.1	1026.5	1087.4	1173.7	1285.0
22.5°	946.7	946.7	943.7	952.8	966.6	995.5	1018.3	1043.8	1114.6	1202.2	1314.4
25°	1001.5	997.2	991.6	995.5	993.7	1011.9	1039.1	1074.4	1165.9	1249.2	1350.2
27.5°	1064.1	1068.0	1058.5	1058.9	1043.8	1037.3	1068.8	1122.3	1242.3	1315.6	1403.2
30°	1149.1	1146.1	1146.5	1145.2	1110.3	1079.6	1113.7	1184.9	1338.5	1417.0	1472.3
32.5°	1215.5	1219.9	1234.1	1242.3	1196.6	1147.4	1183.6	1269.9	1448.1	1532.7	1556.9
35°	1285.9	1293.6	1322.6	1349.3	1310.9	1254.4	1293.2	1382.5	1551.2	1647.0	1653.9
37.5°	1360.1	1375.6	1410.1	1457.2	1451.1	1401.1	1436.5	1515.0	1632.4	1716.1	1734.2
40°	1445.1	1460.2	1516.7	1584.5	1598.7	1587.5	1599.1	1644.9	1685.9	1719.1	1768.7
42.5°	1538.3	1559.0	1630.6	1721.3	1774.8	1784.7	1757.5	1752.8	1709.2	1684.6	1761.4
45°	1648.3	1672.5	1753.6	1871.0	1956.0	1969.4	1922.3	1861.5	1723.8	1659.1	1739.4
47.5°	1771.7	1794.6	1875.3	2016.4	2142.8	2148.0	2066.0	1968.1	1767.4	1688.5	1756.2
50°	1813.2	1827.4	1897.3	2063.0	2296.0	2335.7	2217.1	2088.0	1855.0	1774.8	1838.2
52.5°	1670.8	1676.4	1737.2	1904.6	2264.9	2520.0	2437.5	2267.1	2010.8	1906.4	1964.6
55°	1323.8	1314.8	1364.0	1517.6	1968.5	2482.4	2637.3	2548.4	2211.4	2060.8	2129.0
57.5°	926.0	915.2	904.0	1008.0	1468.8	2104.4	2430.2	2587.7	2402.6	2214.0	2306.4
60°	761.2	750.8	696.4	648.5	888.0	1511.1	1866.7	2163.1	2387.1	2206.3	2300.8
62.5°	657.6	651.6	629.6	564.4	522.5	862.6	1168.9	1452.9	1831.7	1732.5	1737.7
65°	516.5	514.8	529.9	536.8	462.1	477.2	596.3	755.1	990.3	933.8	885.4
67.5°	353.0	349.1	377.6	464.3	444.4	376.7	349.1	352.1	428.5	261.9	208.0
70°	224.4	215.3	215.8	287.8	361.6	297.3	269.3	236.9	213.2	38.8	44.0
72.5°	143.7	138.1	118.7	129.9	167.4	145.0	146.3	126.0	84.1	20.7	24.2
75°	60.4	55.7	42.7	34.1	33.7	21.1	18.6	17.3	11.7	11.7	12.5
77.5°	0.4	0.0	0.0	0.4	0.9	0.4	0.4	0.9	1.7	2.6	3.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1247.0	1236.7	1248.3	1252.6	1252.2	1252.6	1240.1	1231.5	1231.1	1220.3	1215.1
5°	1251.8	1243.6	1252.2	1246.6	1233.2	1216.4	1194.0	1174.5	1165.9	1153.4	1147.4
7.5°	1260.8	1252.2	1250.9	1228.5	1195.3	1159.9	1120.2	1084.8	1065.8	1042.9	1044.2
10°	1267.3	1257.4	1240.6	1194.8	1139.6	1083.1	1024.0	971.3	938.1	907.4	902.3
12.5°	1269.9	1255.2	1216.0	1146.9	1069.3	995.5	908.7	833.7	781.9	741.8	736.1
15°	1274.7	1250.9	1184.5	1089.1	982.5	878.1	767.6	664.9	596.3	550.2	554.0
17.5°	1282.0	1246.2	1149.1	1024.4	889.3	741.8	592.5	474.7	411.7	384.9	385.3
20°	1292.3	1240.6	1110.3	953.2	777.6	587.7	414.2	325.4	307.7	306.8	305.5
22.5°	1306.2	1235.0	1068.8	875.1	645.1	411.7	275.7	248.1	255.4	269.7	272.3
25°	1322.6	1228.1	1022.7	787.1	500.5	270.1	206.7	202.4	220.1	239.1	243.4
27.5°	1348.0	1224.6	970.0	686.9	351.2	193.7	169.1	171.7	187.7	203.7	207.6
30°	1391.2	1231.1	912.6	574.8	225.7	154.5	146.7	150.6	159.2	167.4	170.9
32.5°	1449.8	1250.1	857.0	452.2	160.9	134.2	132.5	134.6	138.1	142.8	144.1
35°	1518.5	1282.9	799.6	323.6	132.9	122.5	120.8	120.8	122.5	123.4	123.8
37.5°	1575.0	1317.4	745.6	215.3	119.1	113.5	110.9	109.6	109.2	110.0	110.5
40°	1599.6	1331.6	686.9	156.6	109.2	105.3	101.4	97.5	97.5	100.5	101.0
42.5°	1582.3	1315.6	619.2	129.5	102.3	96.7	90.6	87.2	88.9	91.9	92.8
45°	1545.6	1276.4	544.6	114.3	95.4	88.0	81.1	79.0	80.7	84.6	85.4
47.5°	1539.6	1250.5	455.2	104.4	88.0	80.7	73.4	71.2	73.4	76.4	77.2
50°	1599.6	1272.9	356.0	95.8	81.1	72.9	66.9	64.7	66.0	67.7	68.6
52.5°	1709.2	1356.2	287.4	87.6	72.9	65.2	61.3	58.7	58.7	60.4	60.8
55°	1871.0	1501.6	248.1	78.1	63.4	59.1	55.7	53.1	53.1	53.9	54.4
57.5°	2057.4	1677.7	257.2	65.6	55.7	53.5	50.5	48.3	49.2	49.2	49.2
60°	2031.5	1664.7	275.3	55.2	49.2	48.3	45.7	44.9	47.0	45.3	44.4
62.5°	1496.4	1150.0	144.1	45.3	42.3	41.4	39.7	41.4	44.4	39.7	38.0
65°	726.6	556.6	57.8	37.1	35.8	35.0	34.1	36.7	38.4	31.1	29.3
67.5°	170.9	138.9	37.5	31.5	29.8	28.0	28.9	29.3	28.0	21.1	20.3
70°	44.4	43.6	29.3	26.3	23.7	22.0	22.0	21.6	18.6	13.4	12.5
72.5°	24.2	23.7	21.1	19.8	16.4	14.7	15.1	13.4	10.4	7.8	7.3
75°	12.1	12.9	12.1	11.2	9.1	8.2	8.2	7.3	5.2	3.0	3.0
77.5°	2.6	3.0	3.0	2.6	2.2	1.7	1.7	2.2	0.9	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)