

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: P629829

Luminaire Tested: GWS-SA1C-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

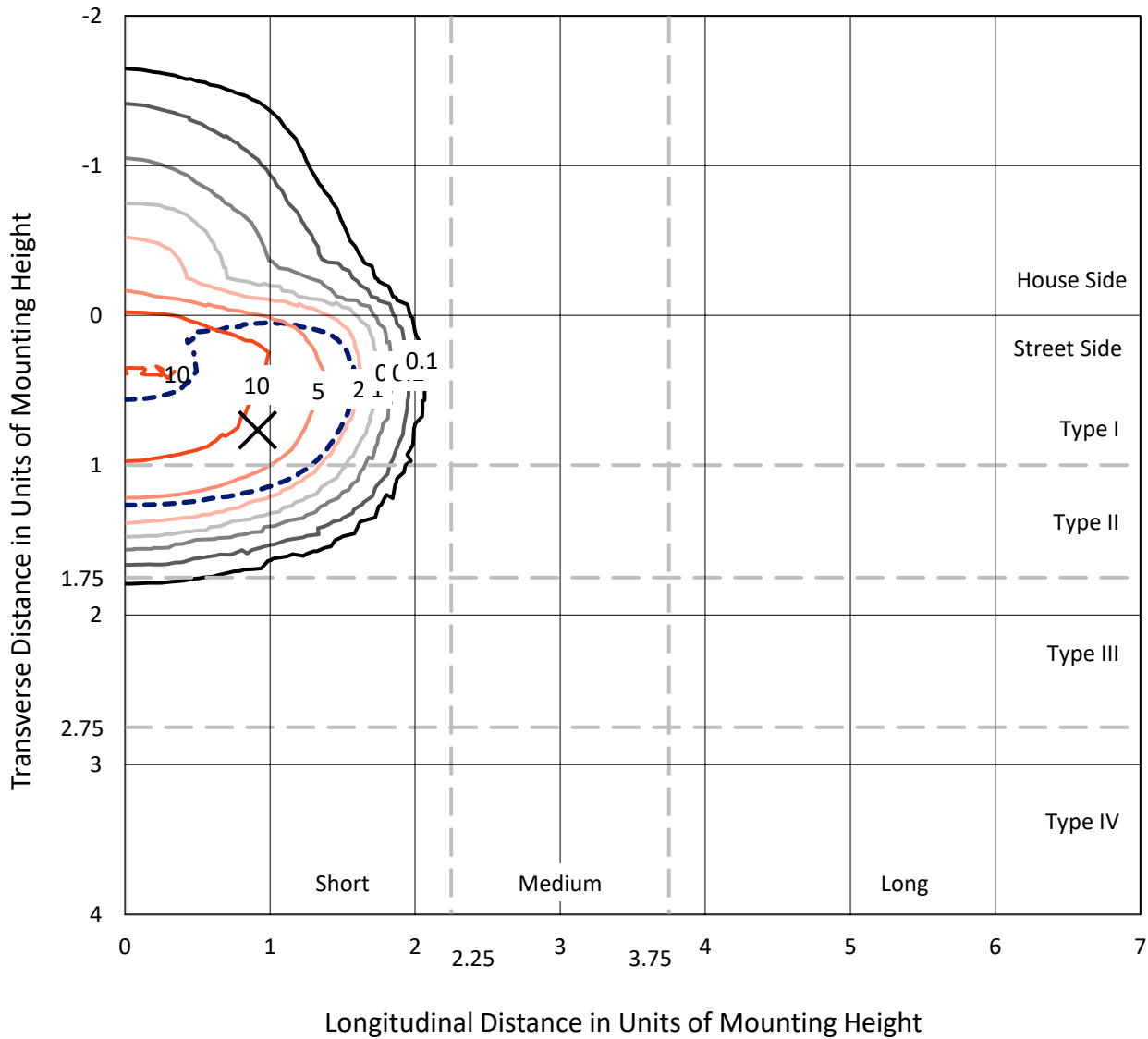
Lumens per Lamp: N/A  
Luminaire Lumens: 3620 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

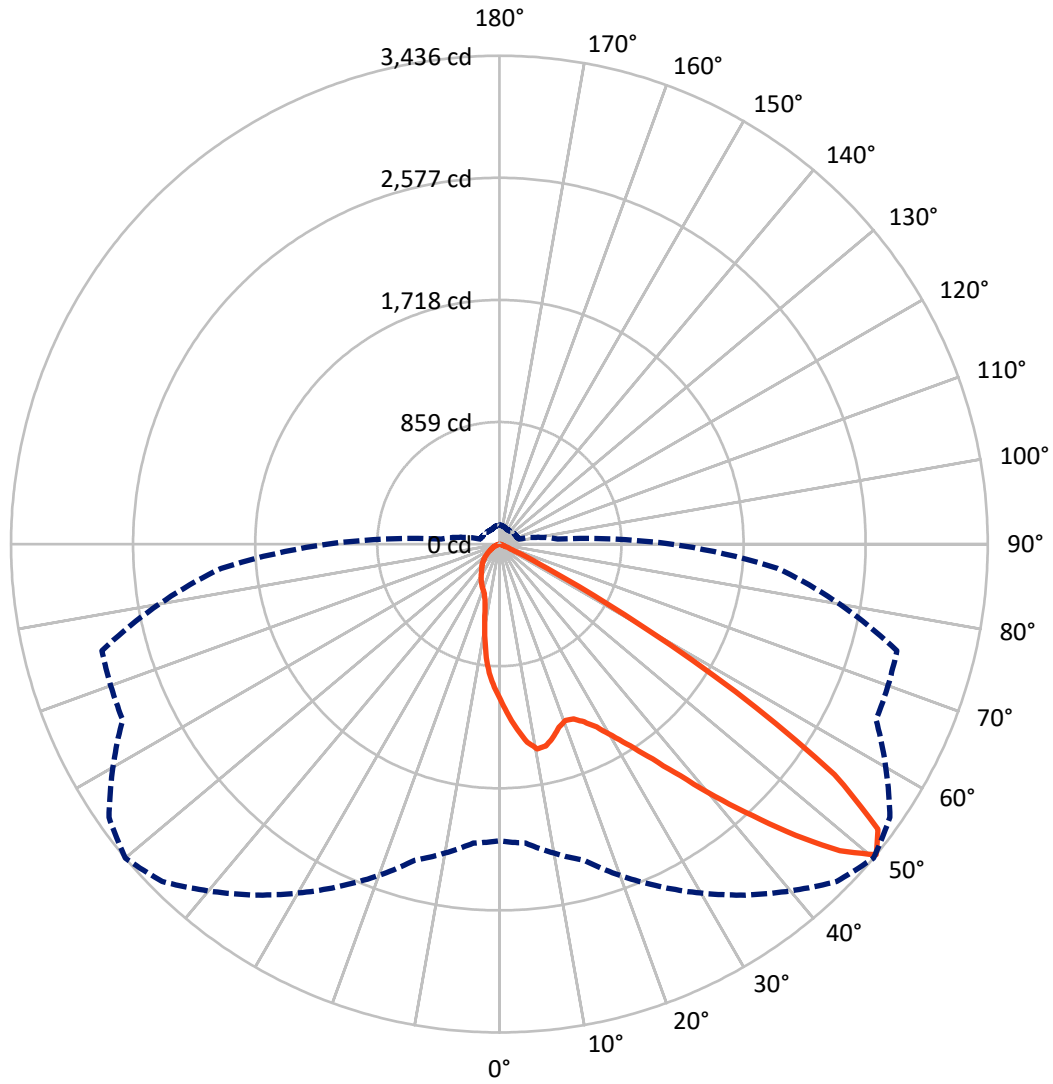
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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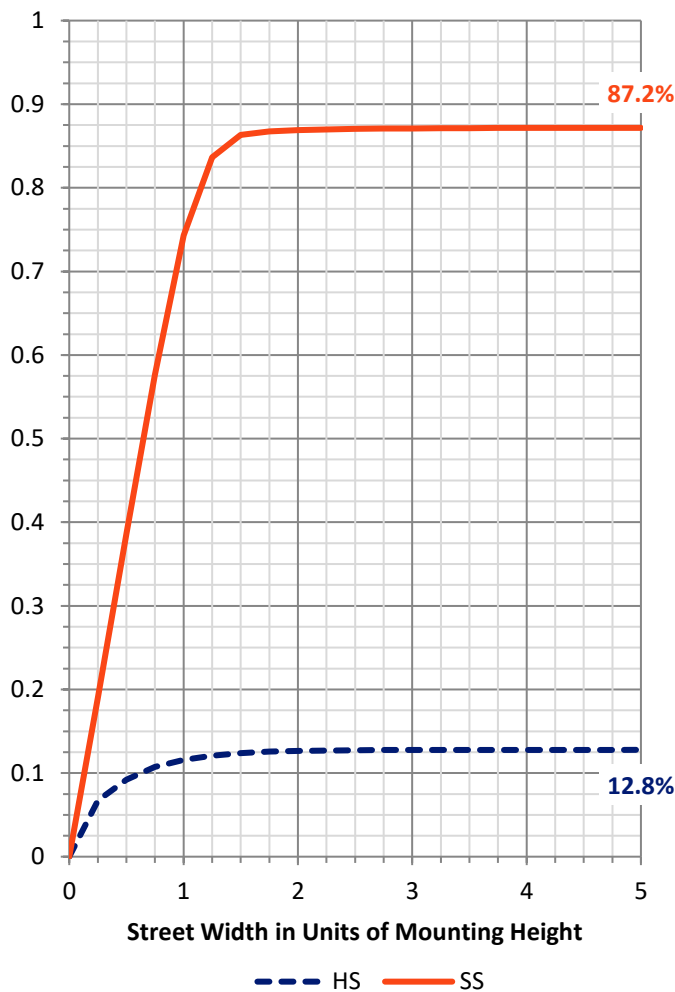
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	465.1	0.0	465.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3154.9	0.0	3154.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3620.0	0.0	3620.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	2.8
10°-20°	262.5	7.3
20°-30°	433.2	12.0
30°-40°	714.9	19.7
40°-50°	1131.1	31.2
50°-60°	856.4	23.7
60°-70°	107.2	3.0
70°-80°	12.1	0.3
80°-90°	0.9	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°	3620.0	100.0
0°-180°	3620.0	100.0

**Coefficient of Utilization**



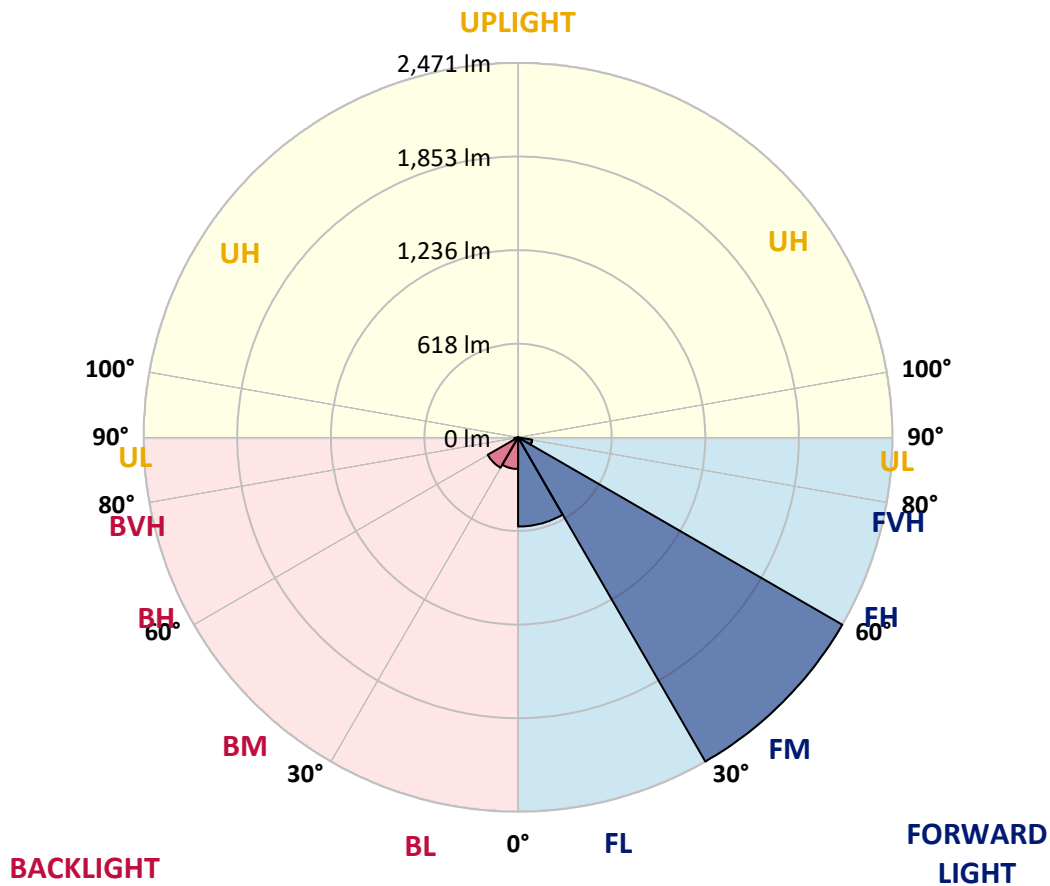
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.7	16.3			
FM (30°-60°)	2471.0	68.3			
FH (60°-80°)	94.8	2.6			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	208.8	5.8	B1/500		
BM (30°-60°)	231.3	6.4	B1/1000		
BH (60°-80°)	24.5	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	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°	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7
2.5°	1249.7	1259.7	1256.9	1243.8	1229.7	1219.7	1204.2	1199.4	1164.2	1139.8	1113.9
5°	1400.6	1403.7	1400.3	1384.4	1359.6	1335.8	1310.3	1295.5	1236.6	1183.5	1129.4
7.5°	1436.8	1433.0	1439.5	1447.5	1444.0	1433.7	1406.8	1390.6	1320.3	1233.8	1151.8
10°	1323.8	1315.2	1339.6	1380.6	1423.7	1472.3	1465.4	1466.8	1402.0	1297.2	1181.1
12.5°	1173.9	1170.5	1188.7	1236.3	1320.7	1430.9	1457.5	1501.9	1476.8	1365.8	1214.6
15°	1108.1	1109.8	1120.8	1150.8	1211.5	1348.6	1412.3	1492.6	1543.6	1432.3	1251.4
17.5°	1118.1	1124.3	1123.9	1133.9	1170.8	1280.7	1355.1	1463.3	1595.3	1508.8	1293.8
20°	1186.0	1192.2	1182.9	1175.3	1187.7	1263.5	1325.2	1433.7	1630.1	1586.0	1338.6
22.5°	1287.6	1294.8	1272.8	1251.1	1243.2	1291.7	1336.5	1421.6	1656.6	1656.6	1378.6
25°	1410.6	1420.6	1386.5	1347.9	1325.8	1351.3	1385.1	1448.9	1683.8	1720.0	1405.8
27.5°	1548.1	1548.4	1519.1	1475.7	1434.4	1437.5	1457.8	1510.2	1713.8	1788.2	1427.1
30°	1702.8	1703.8	1664.9	1612.9	1560.8	1546.7	1563.9	1603.6	1776.2	1874.0	1456.8
32.5°	1902.6	1907.5	1851.6	1775.1	1707.6	1681.1	1691.1	1732.8	1875.4	1981.5	1501.2
35°	2172.8	2177.9	2095.6	1994.6	1887.1	1847.2	1857.1	1899.2	2019.1	2134.2	1572.2
37.5°	2439.4	2446.3	2363.0	2268.9	2121.4	2055.3	2065.6	2105.6	2234.8	2345.0	1685.9
40°	2623.8	2633.1	2607.2	2543.8	2407.1	2320.2	2332.6	2347.1	2472.2	2597.2	1833.4
42.5°	2720.9	2734.0	2745.1	2777.5	2705.4	2632.7	2611.7	2612.8	2713.7	2854.3	1986.7
45°	2726.8	2739.6	2796.1	2921.1	2975.9	2960.8	2922.5	2896.7	2898.0	3025.5	2082.5
47.5°	2537.3	2561.1	2666.8	2911.8	3117.9	3243.6	3224.3	3163.0	2975.6	3036.9	2072.1
50°	2088.3	2111.8	2304.0	2656.5	3014.5	3356.6	3436.2	3353.9	2924.9	2895.3	1965.7
52.5°	1516.7	1519.1	1643.9	2055.6	2595.5	3148.2	3335.6	3327.7	2847.7	2723.7	1820.3
55°	720.5	711.8	852.1	1160.1	1795.1	2546.3	2862.2	2951.8	2738.2	2599.7	1707.6
57.5°	209.8	214.0	276.3	452.7	897.9	1627.3	1960.2	2126.9	2247.5	2137.3	1324.5
60°	94.1	94.4	105.1	137.8	299.1	757.0	1013.3	1219.7	1343.8	1245.2	657.1
62.5°	68.2	68.6	72.7	77.9	101.6	256.3	380.0	506.5	515.8	337.7	166.4
65°	56.9	56.9	57.5	57.5	61.0	91.7	115.4	148.8	125.4	93.0	65.1
67.5°	45.8	46.2	46.9	46.9	45.8	45.8	49.6	54.4	58.2	72.0	60.0
70°	35.8	35.5	35.5	35.8	34.8	29.6	32.0	36.5	40.0	56.2	52.0
72.5°	27.9	28.3	27.9	26.5	24.1	17.6	19.0	23.8	25.5	35.1	35.1
75°	21.0	21.4	20.0	15.2	10.0	5.5	7.2	11.7	14.8	17.2	12.7
77.5°	2.8	2.8	2.1	2.1	1.7	2.1	2.1	2.8	4.1	4.1	3.1
80°	0.3	0.3	0.3	0.7	1.0	1.4	1.4	1.4	1.4	1.7	1.7
82.5°	0.3	0.3	0.3	0.3	1.0	1.0	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.0	1.4	1.4	1.4
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°	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7
2.5°	1098.4	1078.5	1054.3	1037.8	1014.4	998.9	976.8	962.0	949.2	939.3	944.8
5°	1098.8	1067.1	1017.8	975.8	930.0	887.9	842.8	807.3	775.2	760.8	768.7
7.5°	1105.7	1060.2	984.7	910.0	822.1	735.3	654.0	587.8	555.1	539.6	544.4
10°	1119.1	1057.1	947.9	823.8	681.2	562.7	483.8	439.0	420.7	411.1	412.8
12.5°	1131.5	1055.0	900.0	710.5	537.5	436.6	395.5	389.3	393.1	393.5	393.1
15°	1148.4	1051.2	840.7	594.0	430.0	377.3	378.3	387.3	396.2	399.0	398.3
17.5°	1166.3	1045.4	764.2	482.4	364.9	360.1	372.1	384.2	393.1	394.5	394.9
20°	1184.9	1033.3	677.0	393.8	334.6	347.0	360.4	369.4	375.9	378.0	378.7
22.5°	1193.5	1007.8	576.4	330.4	314.2	330.8	340.8	352.5	354.5	347.0	348.3
25°	1189.1	964.8	478.2	287.7	293.9	310.4	325.3	319.4	310.8	305.3	307.0
27.5°	1174.9	907.6	382.1	256.3	272.2	293.2	294.9	288.4	287.0	282.5	283.9
30°	1159.8	841.7	307.3	231.2	250.1	272.2	267.0	269.4	269.8	264.6	266.3
32.5°	1150.5	772.8	244.6	214.3	236.0	240.2	250.5	255.3	255.7	243.6	245.7
35°	1153.6	705.0	207.1	200.5	222.9	221.9	236.4	239.1	219.1	202.6	204.3
37.5°	1178.7	642.2	185.7	189.8	200.2	208.1	219.1	200.9	196.4	188.8	189.8
40°	1225.6	588.8	173.0	183.3	184.7	197.4	180.5	183.0	183.3	178.5	179.5
42.5°	1280.4	544.4	165.4	179.5	176.1	178.1	161.3	166.1	171.2	169.2	169.5
45°	1307.9	501.0	158.8	166.4	167.5	147.8	144.0	149.2	155.7	156.8	157.1
47.5°	1283.5	459.6	151.9	147.5	154.4	134.7	130.2	132.0	139.5	143.7	144.4
50°	1208.7	412.1	141.6	130.6	126.8	120.9	116.8	117.1	125.8	133.0	134.4
52.5°	1103.6	362.5	124.7	110.6	102.0	106.5	107.5	105.4	113.4	120.6	122.0
55°	1001.6	300.5	98.9	89.9	82.0	91.7	94.4	91.7	94.1	98.9	99.2
57.5°	705.3	169.9	75.8	74.4	67.9	78.6	83.0	78.9	74.8	77.9	78.6
60°	327.0	88.9	58.2	58.2	56.5	67.5	75.1	69.3	61.3	62.7	63.7
62.5°	102.3	56.2	42.7	40.3	46.2	57.5	63.7	57.9	48.6	48.6	50.0
65°	57.9	48.2	33.8	31.0	37.6	46.2	50.0	43.8	35.5	34.8	34.8
67.5°	53.8	45.8	30.0	25.2	26.5	29.6	31.0	26.9	24.5	24.1	24.5
70°	44.4	38.2	24.1	17.2	16.2	15.8	16.5	15.5	14.8	15.2	16.2
72.5°	27.6	23.1	15.2	10.3	9.0	8.6	8.6	8.6	8.3	8.3	8.3
75°	10.0	8.6	6.9	5.2	4.5	4.1	4.1	4.5	4.1	3.8	3.4
77.5°	3.1	2.8	2.8	2.8	2.4	2.1	1.7	1.7	1.4	1.0	1.0
80°	1.7	1.7	1.7	1.7	1.4	1.4	1.0	0.7	0.3	0.3	0.0
82.5°	1.7	1.7	1.7	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	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)