

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: P632780

Luminaire Tested: GWS-SA2D-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

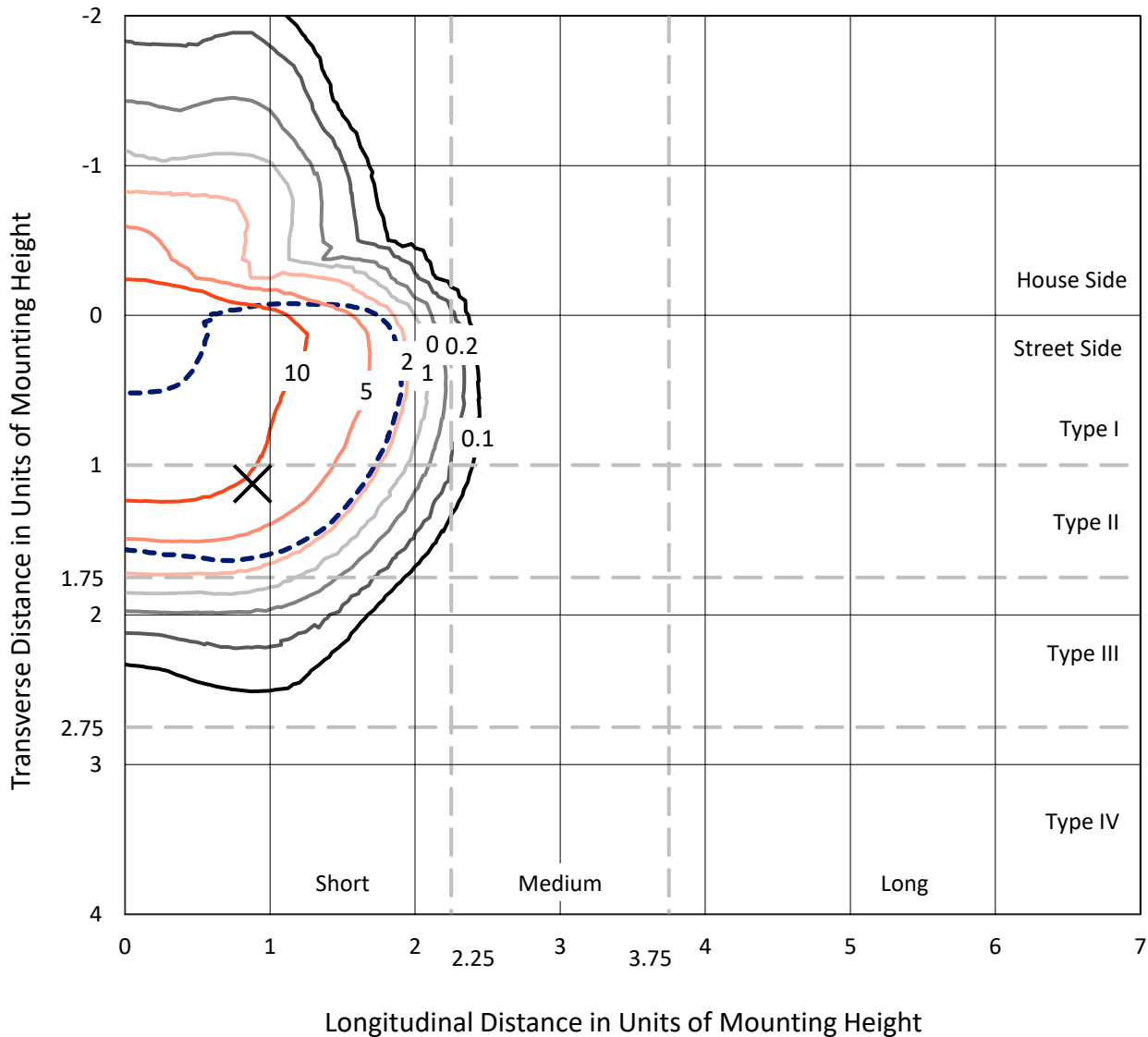
Lumens per Lamp: N/A  
Luminaire Lumens: 7222.8 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

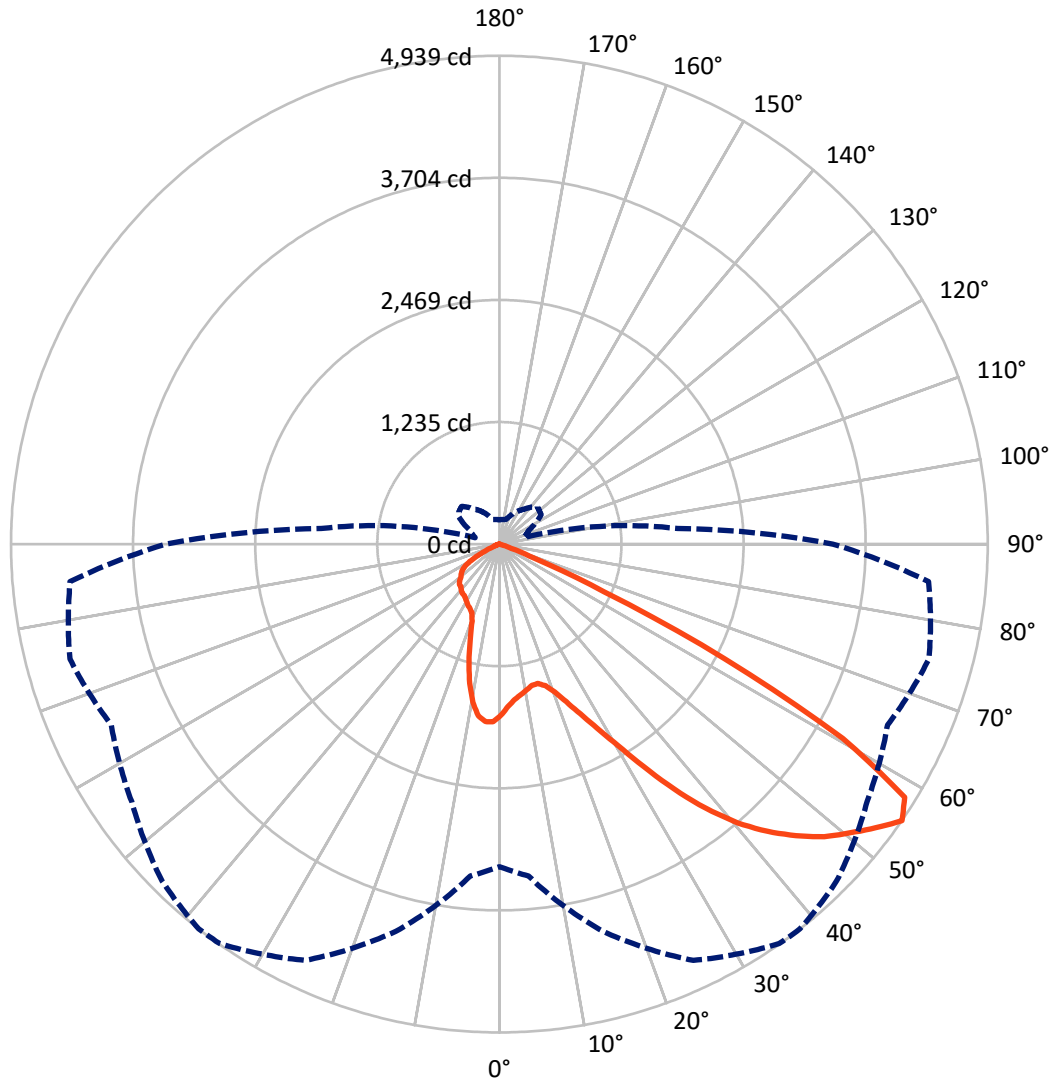
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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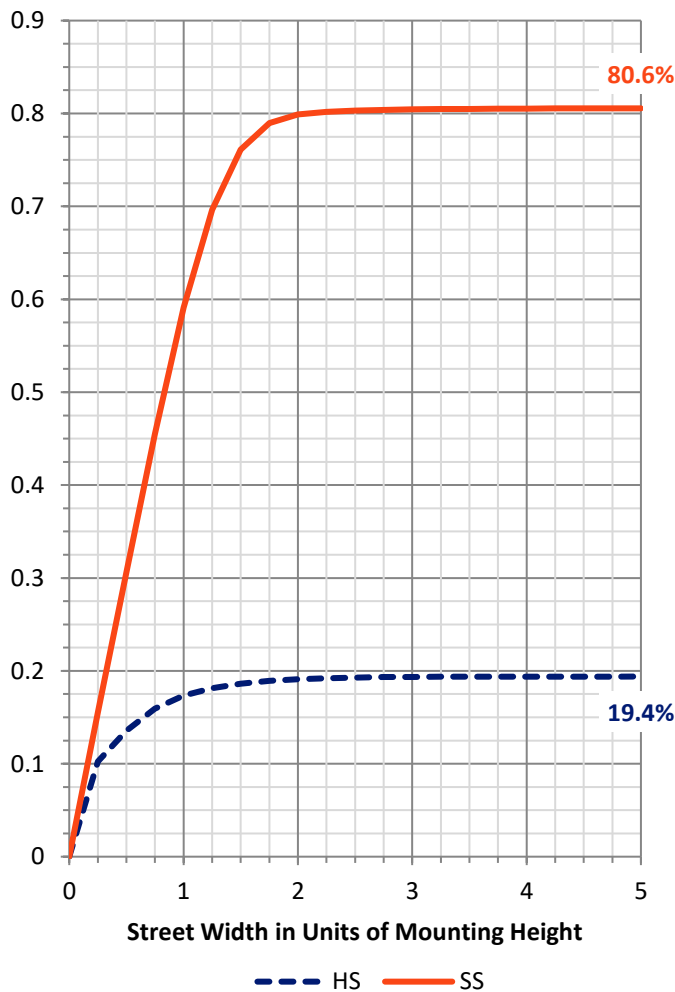
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1407.2	0.0	1407.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5815.6	0.0	5815.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7222.8	0.0	7222.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	2.2
10°-20°	431.2	6.0
20°-30°	739.9	10.2
30°-40°	1227.1	17.0
40°-50°	1804.0	25.0
50°-60°	2108.0	29.2
60°-70°	714.5	9.9
70°-80°	36.5	0.5
80°-90°	1.5	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°	7222.8	100.0
0°-180°	7222.8	100.0

**Coefficient of Utilization**



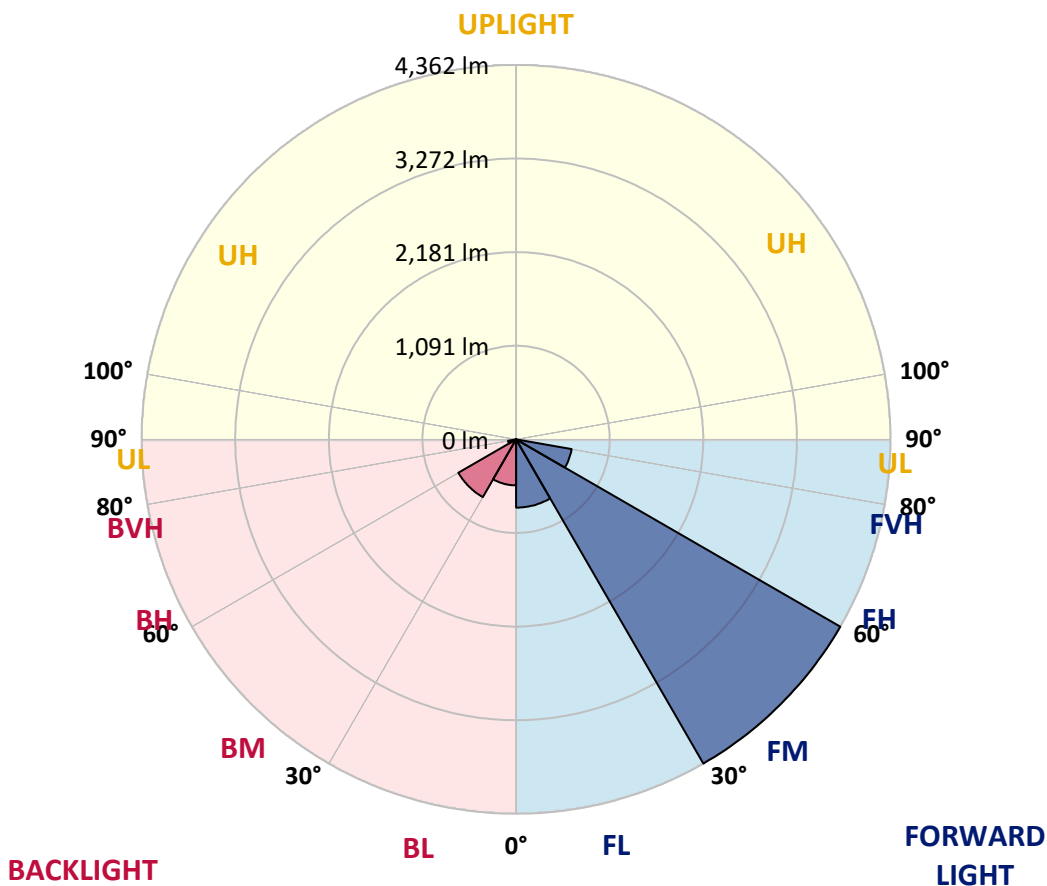
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.1	11.0			
FM (30°-60°)	4362.4	60.4			
FH (60°-80°)	657.4	9.1			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	536.1	7.4	B2/1000		
BM (30°-60°)	776.7	10.8	B1/1000		
BH (60°-80°)	93.7	1.3	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1613.2	1609.9	1616.5	1629.7	1642.1	1646.2	1658.6	1675.9	1686.7	1712.3	1732.9
5°	1540.5	1538.9	1545.5	1557.1	1573.6	1579.3	1598.3	1627.2	1656.1	1700.7	1744.5
7.5°	1474.5	1473.7	1483.6	1509.2	1533.1	1540.5	1563.7	1599.2	1638.0	1706.5	1770.9
10°	1387.8	1388.6	1407.6	1444.0	1487.7	1502.6	1539.7	1590.9	1641.3	1729.6	1818.8
12.5°	1359.7	1361.4	1371.3	1399.4	1447.3	1466.2	1518.3	1595.9	1660.3	1762.6	1880.7
15°	1428.3	1428.3	1420.0	1423.3	1444.8	1462.1	1516.6	1612.4	1692.5	1802.3	1941.8
17.5°	1561.2	1556.2	1535.6	1507.5	1500.1	1505.9	1549.6	1647.9	1737.9	1848.5	2011.1
20°	1741.2	1742.8	1702.4	1643.7	1596.7	1595.9	1622.3	1710.6	1803.1	1903.8	2086.3
22.5°	1959.1	1952.5	1898.9	1818.8	1737.0	1730.4	1741.2	1806.4	1897.2	1991.3	2178.7
25°	2211.7	2208.4	2132.5	2025.2	1917.0	1901.3	1901.3	1965.7	2031.8	2116.0	2289.4
27.5°	2475.9	2475.9	2402.5	2278.6	2135.0	2106.9	2102.8	2178.7	2222.5	2239.0	2382.6
30°	2747.6	2744.3	2671.6	2544.5	2390.9	2362.0	2350.4	2406.6	2438.0	2388.4	2499.1
32.5°	3023.3	3029.1	2955.6	2837.5	2700.5	2681.5	2646.0	2646.0	2671.6	2602.3	2682.3
35°	3319.7	3318.0	3260.2	3180.2	3062.9	3041.5	2982.8	2891.2	2930.0	2899.5	2935.8
37.5°	3581.4	3593.8	3565.7	3506.3	3411.3	3389.9	3293.3	3127.3	3157.0	3204.9	3237.1
40°	3847.2	3857.1	3885.2	3866.2	3746.5	3706.9	3535.2	3262.7	3295.7	3460.0	3552.5
42.5°	4108.1	4113.1	4170.0	4201.4	4041.3	3971.9	3718.4	3345.3	3380.0	3659.8	3821.6
45°	4274.1	4284.8	4378.9	4474.7	4301.3	4206.4	3877.8	3451.0	3465.8	3798.5	4020.6
47.5°	4267.5	4292.2	4468.9	4643.1	4525.0	4422.7	4069.3	3620.2	3595.4	3929.0	4151.9
50°	4134.5	4164.3	4417.7	4694.3	4686.0	4591.1	4282.3	3865.4	3787.8	4044.6	4168.4
52.5°	3858.8	3944.7	4327.7	4700.9	4815.7	4767.8	4545.7	4195.6	4047.9	4210.5	4194.8
55°	3262.7	3368.4	4054.5	4644.8	4932.9	4938.7	4822.3	4539.9	4330.2	4496.1	4357.5
57.5°	2476.8	2561.0	3120.7	4134.5	4738.9	4833.8	4929.6	4721.5	4504.4	4691.0	4395.4
60°	1492.7	1590.1	1954.2	3034.0	3827.4	3989.2	4364.9	4324.4	4062.7	4142.8	3604.5
62.5°	605.2	656.3	902.4	1671.8	2409.1	2560.1	2920.1	2981.2	2916.8	2835.1	2186.2
65°	221.3	241.9	361.6	691.0	1107.9	1163.3	1353.1	1461.3	1550.5	1320.1	813.2
67.5°	137.0	150.3	235.3	355.0	402.9	374.8	381.4	454.9	434.3	268.3	145.3
70°	101.5	112.3	184.1	246.0	162.6	125.5	85.0	90.8	81.7	71.8	71.0
72.5°	70.2	80.1	137.9	145.3	62.7	44.6	31.4	43.8	49.5	48.7	50.4
75°	46.2	53.7	86.7	57.0	15.7	12.4	10.7	23.1	29.7	29.7	30.5
77.5°	27.2	31.4	30.5	11.6	3.3	3.3	2.5	4.1	6.6	7.4	9.1
80°	3.3	2.5	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5
82.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5
85°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	1.7	1.7	2.5	2.5
87.5°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	1.7	1.7	2.5	2.5
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°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1748.6	1742.8	1766.8	1784.1	1798.1	1804.7	1795.7	1794.8	1794.8	1776.7	1771.7
5°	1769.2	1771.7	1805.6	1820.4	1822.9	1814.6	1794.0	1780.0	1771.7	1752.7	1742.0
7.5°	1808.9	1817.1	1849.3	1846.8	1824.5	1786.6	1732.1	1690.0	1662.7	1633.0	1614.8
10°	1865.8	1881.5	1901.3	1866.7	1795.7	1699.1	1586.8	1506.7	1458.8	1425.0	1404.3
12.5°	1935.2	1950.9	1944.3	1862.5	1714.7	1542.2	1397.7	1282.1	1226.8	1196.3	1174.8
15°	2005.4	2015.3	1972.3	1813.0	1571.9	1339.9	1178.9	1064.2	996.5	971.7	953.6
17.5°	2077.2	2074.7	1977.3	1715.6	1381.2	1112.1	953.6	875.1	856.1	852.0	850.4
20°	2152.3	2130.0	1957.5	1576.0	1151.7	886.7	796.7	801.6	836.3	852.8	856.1
22.5°	2238.2	2182.0	1907.9	1387.0	917.2	738.9	748.0	796.7	843.8	866.0	869.3
25°	2329.8	2229.9	1825.4	1144.3	723.2	679.5	733.1	789.3	839.6	866.9	870.2
27.5°	2390.1	2241.5	1690.0	899.9	620.8	656.3	713.3	767.0	819.0	848.7	852.8
30°	2455.3	2236.5	1505.9	693.5	586.2	636.5	686.1	734.8	782.7	815.7	819.0
32.5°	2551.1	2233.2	1281.3	563.1	572.1	620.8	657.2	697.6	730.6	749.6	747.2
35°	2676.6	2229.1	1019.6	507.7	563.9	608.5	637.4	656.3	620.0	608.5	610.9
37.5°	2837.5	2239.0	799.2	484.6	561.4	605.2	629.9	575.4	519.3	497.8	494.5
40°	3015.9	2264.6	609.3	475.5	569.7	613.4	601.9	511.9	442.5	400.4	391.3
42.5°	3195.0	2292.7	482.1	472.2	583.7	636.5	555.6	465.6	361.6	337.7	334.4
45°	3327.9	2287.7	416.9	466.5	596.1	649.7	543.2	399.6	322.8	312.1	312.9
47.5°	3394.8	2233.2	381.4	453.2	601.0	636.5	512.7	372.3	296.4	307.9	317.9
50°	3359.3	2092.0	348.4	427.7	590.3	619.2	464.0	351.7	283.2	331.1	353.4
52.5°	3316.4	1918.7	312.1	388.0	564.7	595.2	445.0	345.9	274.9	319.5	336.0
55°	3373.4	1808.9	252.6	326.9	514.3	539.1	430.1	345.1	255.9	248.5	246.0
57.5°	3293.3	1590.1	180.8	235.3	394.6	426.8	419.4	339.3	227.0	226.2	229.5
60°	2545.3	970.1	123.8	149.4	241.9	272.4	380.6	324.5	195.7	180.0	180.8
62.5°	1446.4	412.8	85.0	92.5	123.8	147.0	290.6	294.7	180.8	171.7	180.8
65°	503.6	147.8	66.0	61.9	68.5	78.4	166.8	227.9	164.3	148.6	150.3
67.5°	104.0	73.5	58.6	51.2	51.2	51.2	85.0	142.0	135.4	118.1	119.7
70°	66.0	62.7	51.2	43.8	42.1	38.8	48.7	78.4	93.3	85.9	86.7
72.5°	48.7	47.9	40.5	35.5	31.4	28.1	30.5	38.8	47.9	49.5	50.4
75°	29.7	30.5	26.4	22.3	19.8	17.3	18.2	18.2	18.2	16.5	18.2
77.5°	9.1	9.9	8.3	6.6	5.8	5.8	5.8	5.0	4.1	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.0	0.0
82.5°	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	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)