

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: P636791

Luminaire Tested: GWS-SA4B-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-740-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

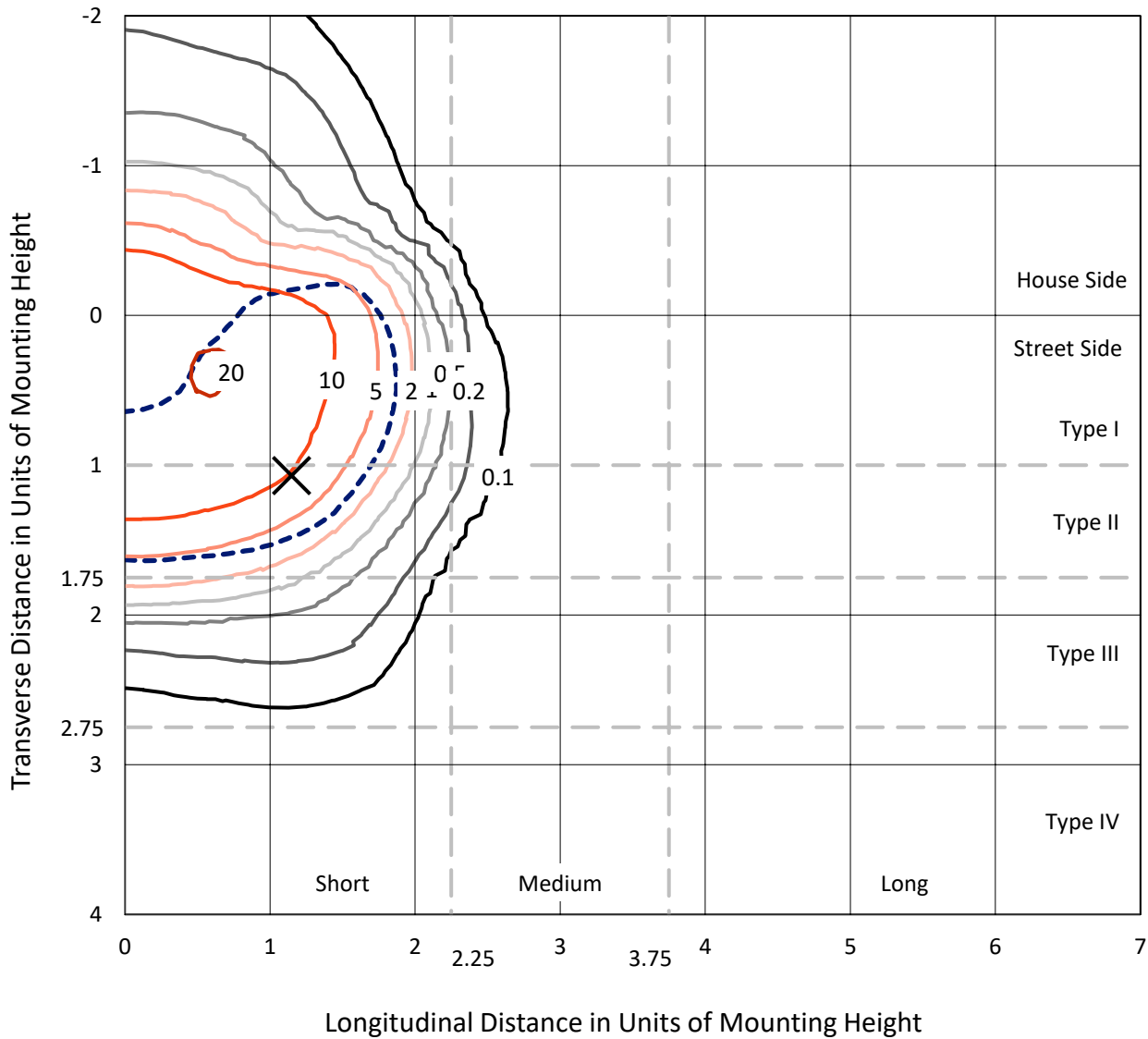
Lumens per Lamp: N/A  
Luminaire Lumens: 8938.1 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

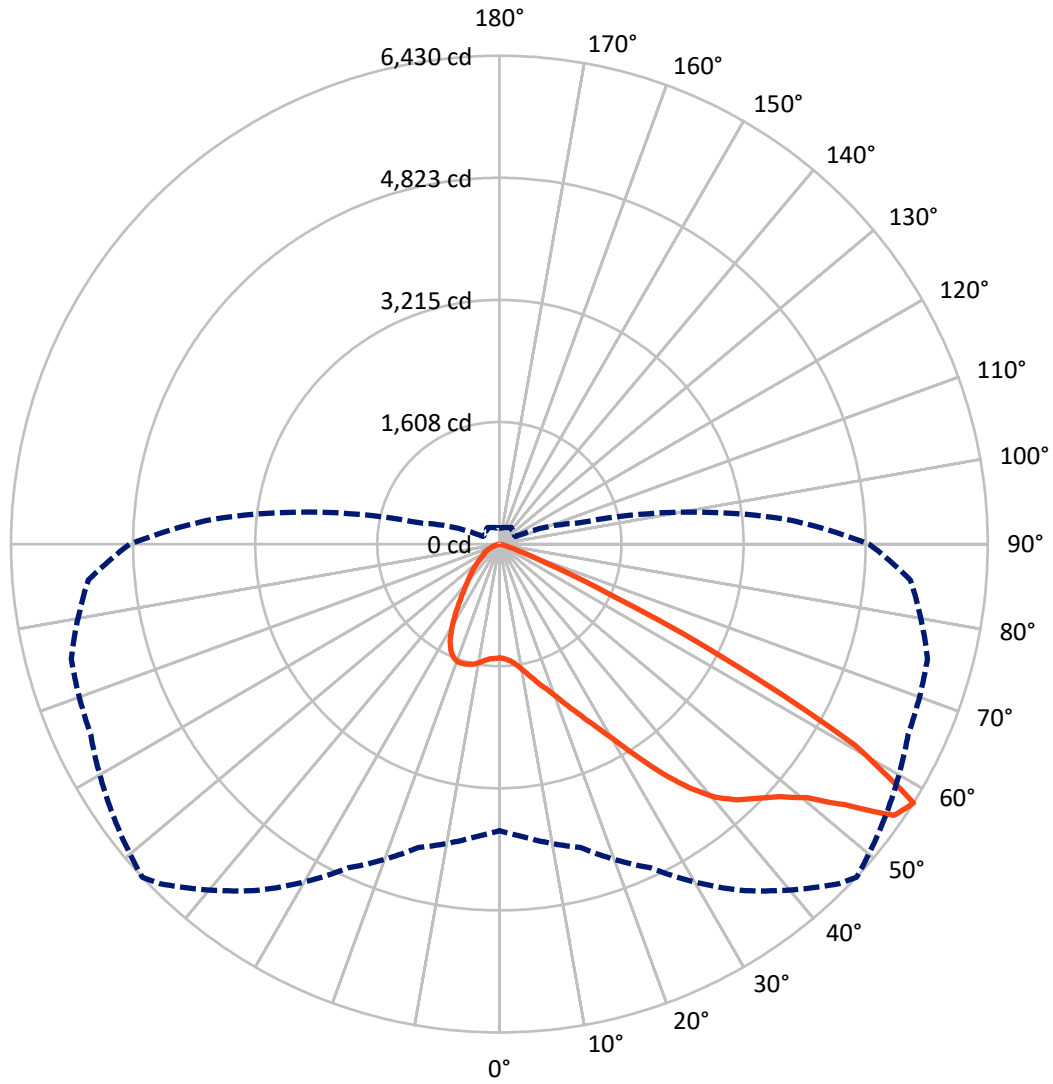
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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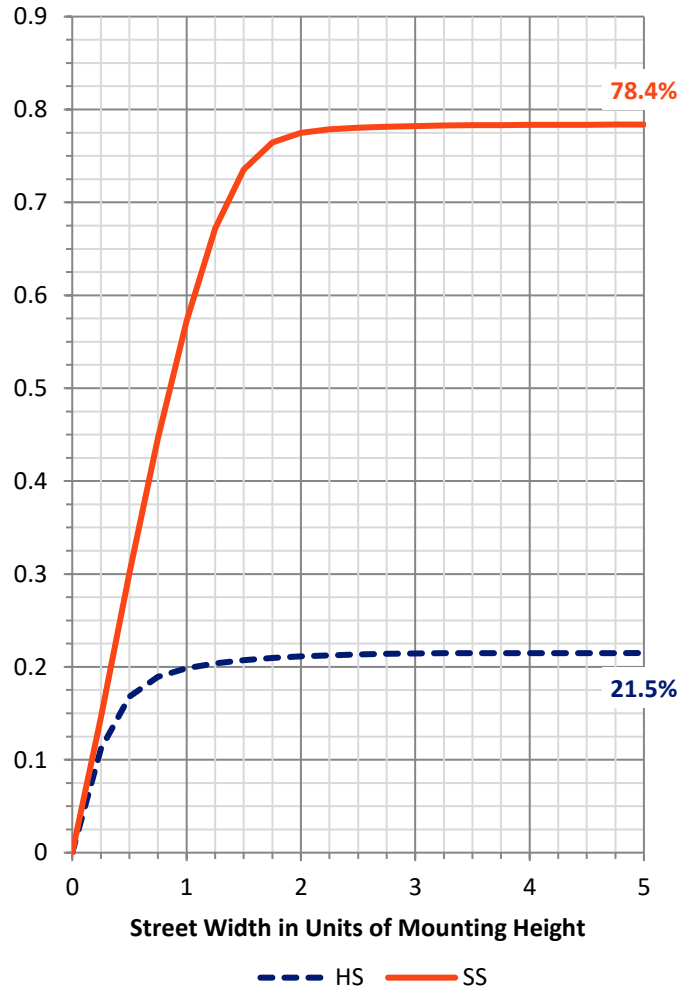
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1939.1	0.0	1939.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	6999.0	0.0	6999.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	8938.1	0.0	8938.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	1.7
10°-20°	502.3	5.6
20°-30°	932.6	10.4
30°-40°	1493.0	16.7
40°-50°	2182.4	24.4
50°-60°	2693.4	30.1
60°-70°	900.0	10.1
70°-80°	83.9	0.9
80°-90°	1.7	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°	8938.1	100.0
0°-180°	8938.1	100.0

**Coefficient of Utilization**



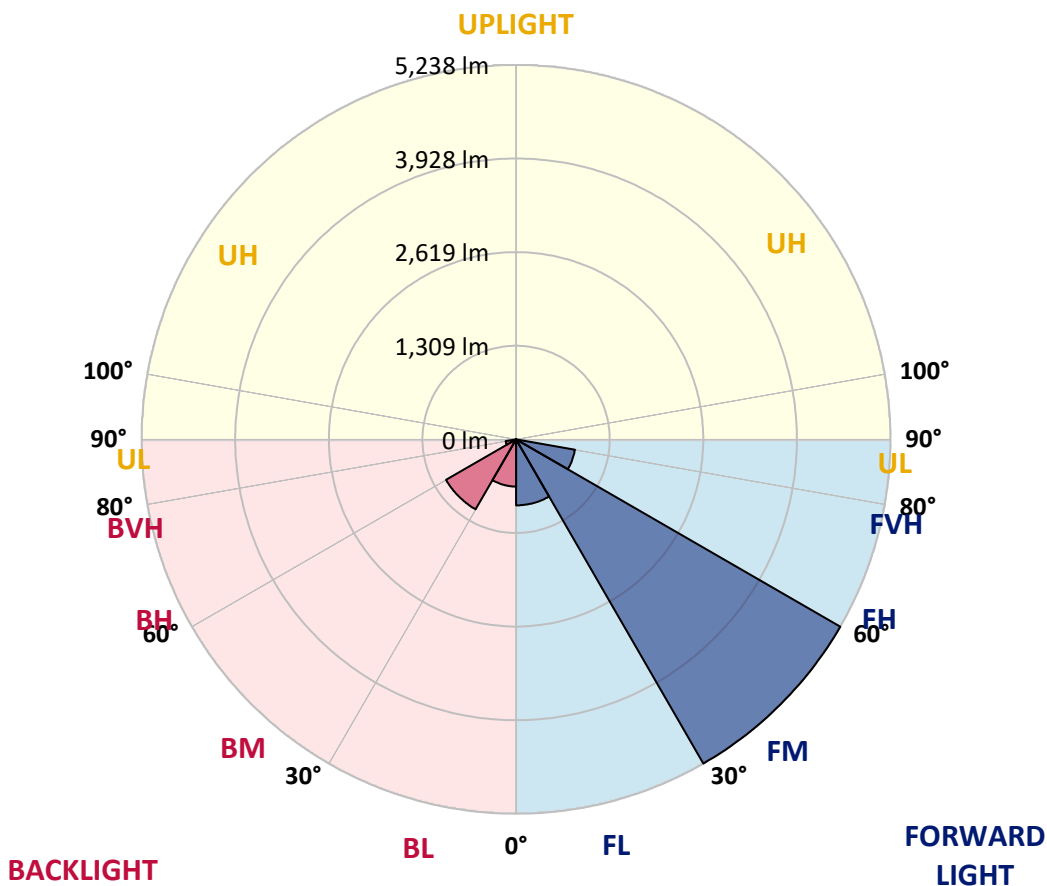
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.7	10.3			
FM (30°-60°)	5237.7	58.6			
FH (60°-80°)	836.4	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	660.0	7.4	B2/1000		
BM (30°-60°)	1131.1	12.7	B2/2500		
BH (60°-80°)	147.4	1.6	B1/500		G1/500
BVH (80°-90°)	0.6	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1511.8	1510.8	1509.7	1516.0	1513.9	1512.8	1514.9	1514.9	1514.9	1508.7	1496.2
5°	1548.1	1548.1	1547.1	1553.3	1548.1	1545.0	1546.1	1546.1	1541.9	1530.5	1514.9
7.5°	1605.2	1603.1	1601.0	1607.3	1602.1	1601.0	1603.1	1596.9	1589.6	1571.0	1549.2
10°	1687.2	1687.2	1684.1	1690.3	1686.1	1684.1	1684.1	1679.9	1666.4	1637.4	1605.2
12.5°	1800.3	1795.1	1787.8	1782.6	1780.6	1779.5	1780.6	1774.3	1759.8	1722.4	1677.8
15°	1923.7	1919.6	1908.2	1899.9	1888.5	1886.4	1892.6	1887.4	1872.9	1822.1	1758.8
17.5°	2079.4	2084.6	2055.5	2037.9	2004.7	2002.6	2004.7	2013.0	2002.6	1937.2	1844.9
20°	2212.2	2216.4	2194.6	2182.1	2152.0	2138.5	2142.7	2156.2	2144.8	2068.0	1939.3
22.5°	2354.4	2359.5	2336.7	2310.8	2297.3	2297.3	2312.9	2331.5	2316.0	2215.3	2047.2
25°	2524.5	2528.7	2510.0	2475.8	2451.9	2482.0	2504.8	2554.6	2528.7	2391.7	2174.9
27.5°	2719.6	2720.6	2693.7	2658.4	2645.9	2702.0	2724.8	2801.6	2791.2	2589.9	2309.7
30°	2928.2	2929.2	2923.0	2899.1	2887.7	2961.4	2992.5	3103.5	3096.3	2835.8	2493.4
32.5°	3145.0	3145.0	3156.4	3154.4	3167.9	3288.2	3338.0	3464.6	3457.3	3136.7	2721.7
35°	3362.9	3364.0	3383.7	3433.5	3489.5	3649.3	3714.7	3868.2	3851.6	3496.8	3013.2
37.5°	3610.9	3600.5	3627.5	3702.2	3826.7	4011.4	4073.7	4220.0	4201.3	3865.1	3394.1
40°	3909.8	3891.1	3891.1	3978.2	4119.4	4332.1	4385.0	4457.6	4394.3	4162.9	3767.6
42.5°	4239.7	4222.1	4199.2	4276.0	4394.3	4560.3	4603.9	4584.2	4532.3	4444.1	4193.0
45°	4573.8	4546.8	4562.4	4609.1	4677.6	4756.4	4773.1	4681.7	4657.9	4682.8	4544.8
47.5°	4828.0	4809.4	4847.8	4913.1	4969.2	4980.6	4969.2	4842.6	4840.5	4928.7	4788.6
50°	4913.1	4915.2	5021.0	5164.2	5254.5	5263.8	5248.3	5103.0	5083.3	5109.2	4920.4
52.5°	4921.4	4929.7	5084.3	5357.2	5603.1	5715.2	5702.8	5546.1	5353.1	5325.1	5119.6
55°	4721.2	4769.9	4985.8	5384.2	5907.2	6265.1	6306.7	6006.8	5720.4	5696.5	5548.2
57.5°	3773.8	3873.4	4133.9	4701.5	5567.9	6322.2	6430.1	6214.3	5937.3	5835.6	5433.0
60°	2255.8	2379.3	2629.3	3325.6	4237.6	5196.4	5382.1	5412.2	5284.6	4991.0	4168.1
62.5°	968.1	957.7	1265.9	1799.2	2520.4	3302.7	3386.8	3517.5	3628.6	3321.4	2529.7
65°	332.0	361.1	502.2	811.4	1261.7	1533.6	1608.3	1725.6	1883.3	1554.4	926.6
67.5°	205.4	217.9	289.5	479.4	680.7	670.3	637.1	618.4	601.8	411.9	254.2
70°	149.4	159.8	203.4	330.0	457.6	321.7	279.1	226.2	251.1	231.4	180.5
72.5°	100.6	109.0	140.1	200.3	234.5	156.7	145.3	165.0	199.2	189.9	147.3
75°	60.2	65.4	79.9	97.5	95.5	80.9	82.0	116.2	152.5	142.2	104.8
77.5°	41.5	43.6	52.9	63.3	46.7	24.9	22.8	32.2	51.9	51.9	35.3
80°	10.4	13.5	13.5	8.3	7.3	6.2	6.2	9.3	14.5	10.4	5.2
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1503.5	1491.1	1499.4	1497.3	1503.5	1505.6	1496.2	1494.2	1495.2	1482.8	1478.6
5°	1518.0	1503.5	1507.7	1503.5	1510.8	1517.0	1513.9	1518.0	1523.2	1513.9	1509.7
7.5°	1549.2	1534.6	1533.6	1527.4	1537.8	1541.9	1540.9	1552.3	1562.7	1556.4	1550.2
10°	1603.1	1583.4	1581.3	1576.1	1579.3	1582.4	1571.0	1573.0	1582.4	1575.1	1572.0
12.5°	1669.5	1645.7	1640.5	1628.0	1628.0	1612.5	1587.6	1582.4	1589.6	1584.4	1579.3
15°	1741.1	1709.0	1700.7	1678.9	1658.1	1629.1	1603.1	1596.9	1602.1	1595.9	1591.7
17.5°	1821.0	1784.7	1757.7	1719.3	1673.7	1639.4	1610.4	1596.9	1588.6	1576.1	1575.1
20°	1899.9	1852.2	1806.5	1745.3	1685.1	1633.2	1585.5	1550.2	1520.1	1501.4	1494.2
22.5°	1991.2	1920.6	1847.0	1760.8	1674.7	1595.9	1511.8	1451.6	1399.7	1382.1	1373.8
25°	2088.7	1997.4	1887.4	1775.4	1639.4	1512.8	1398.7	1309.5	1241.0	1218.2	1208.8
27.5°	2196.6	2071.1	1928.9	1772.3	1566.8	1394.6	1243.1	1132.0	1064.6	1043.8	1051.1
30°	2333.6	2166.5	1980.8	1740.1	1457.9	1228.5	1051.1	957.7	906.9	887.2	888.2
32.5°	2516.2	2303.5	2056.6	1671.6	1317.8	1039.7	884.1	815.6	781.3	755.4	753.3
35°	2777.7	2512.1	2127.1	1561.6	1147.6	871.6	758.5	704.5	656.8	626.7	631.9
37.5°	3091.1	2774.6	2165.5	1413.2	956.7	740.9	664.1	609.1	555.1	510.5	515.7
40°	3462.5	3118.0	2162.4	1218.2	782.4	651.6	585.2	520.9	453.4	413.0	417.1
42.5°	3876.5	3442.8	2095.0	1011.7	648.5	579.0	509.5	428.5	363.2	338.3	339.3
45°	4235.6	3706.4	1976.7	797.9	545.8	508.4	430.6	347.6	318.5	300.9	299.9
47.5°	4501.2	3899.4	1807.5	627.8	462.8	444.1	353.8	311.3	288.5	273.9	271.9
50°	4649.6	3966.8	1620.8	491.8	391.2	376.7	316.5	282.2	266.7	257.3	255.3
52.5°	4848.8	4047.8	1486.9	388.1	327.9	308.2	291.6	262.5	252.1	244.9	241.8
55°	5164.2	4204.4	1370.7	308.2	272.9	268.7	275.0	251.1	244.9	233.5	229.3
57.5°	4867.5	3776.9	1064.6	238.7	230.4	245.9	265.6	239.7	224.1	213.7	209.6
60°	3425.2	2511.0	535.4	192.0	205.4	230.4	250.1	216.9	201.3	203.4	201.3
62.5°	1888.5	1256.6	240.7	160.8	178.5	203.4	213.7	187.8	177.4	195.1	198.2
65°	617.4	427.5	139.0	124.5	141.1	166.0	184.7	178.5	176.4	197.1	203.4
67.5°	189.9	141.1	94.4	89.2	97.5	122.4	155.6	193.0	207.5	213.7	216.9
70°	142.2	111.0	80.9	75.7	79.9	93.4	131.8	160.8	151.5	152.5	150.5
72.5°	114.1	88.2	69.5	66.4	66.4	64.3	69.5	87.2	98.6	103.8	103.8
75°	79.9	62.3	52.9	48.8	38.4	31.1	28.0	28.0	24.9	23.9	22.8
77.5°	27.0	22.8	20.8	16.6	11.4	9.3	8.3	7.3	5.2	3.1	2.1
80°	4.2	3.1	2.1	2.1	2.1	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	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)