

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: P632084

Luminaire Tested: GWS-SA2C-722-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-722-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

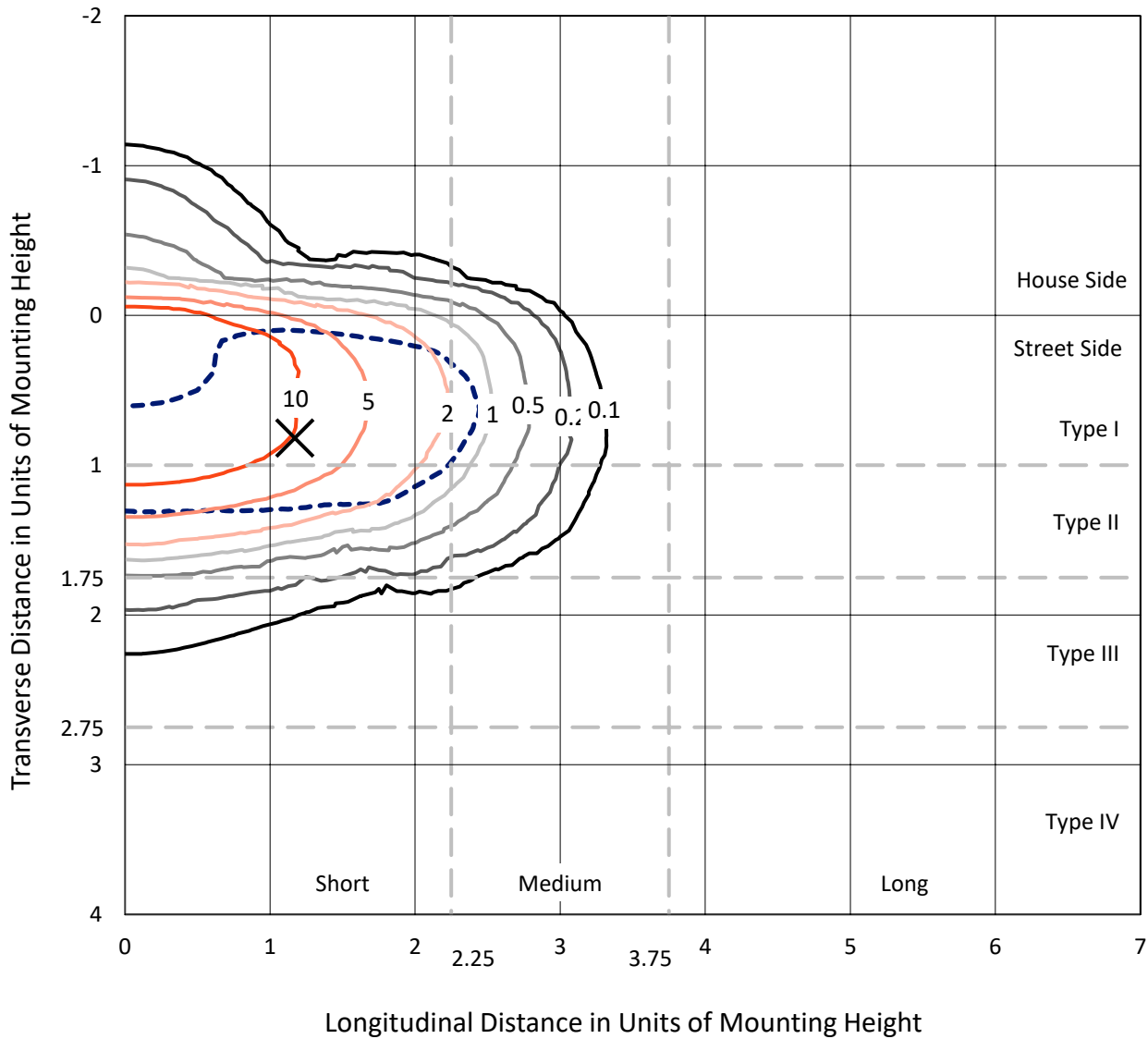
Lumens per Lamp: N/A  
Luminaire Lumens: 5717 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

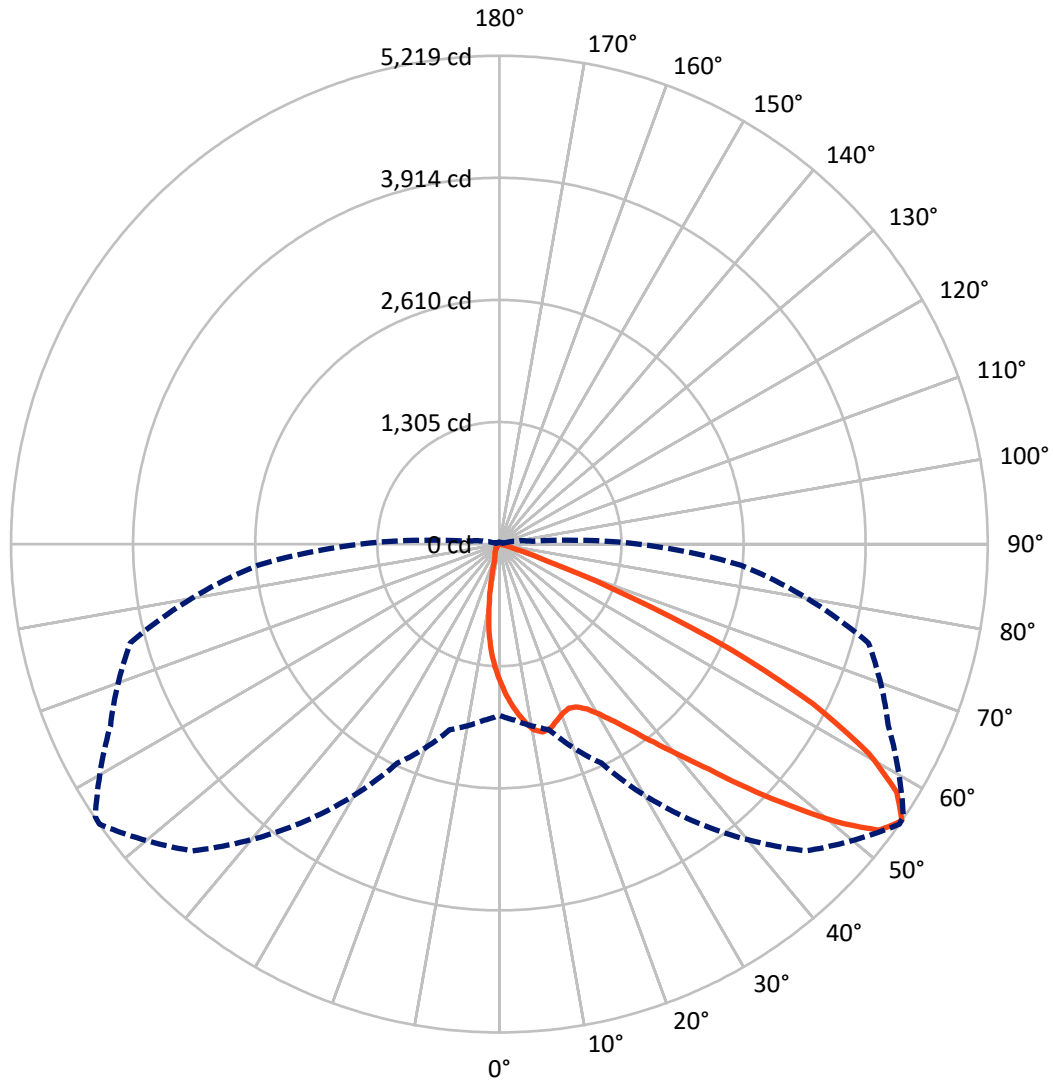
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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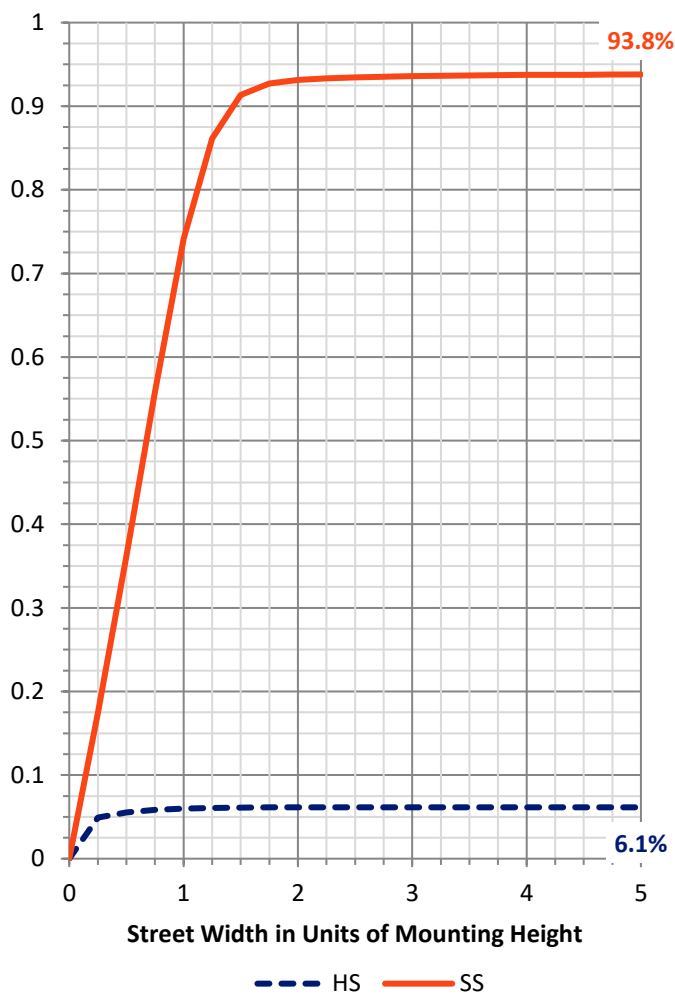
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	352.8	0.0	352.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5364.2	0.0	5364.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5717.0	0.0	5717.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.5	2.3
10°-20°	314.7	5.5
20°-30°	524.1	9.2
30°-40°	893.0	15.6
40°-50°	1457.8	25.5
50°-60°	1526.2	26.7
60°-70°	769.8	13.5
70°-80°	97.2	1.7
80°-90°	3.7	0.1
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°	5717.0	100.0
0°-180°	5717.0	100.0

**Coefficient of Utilization**



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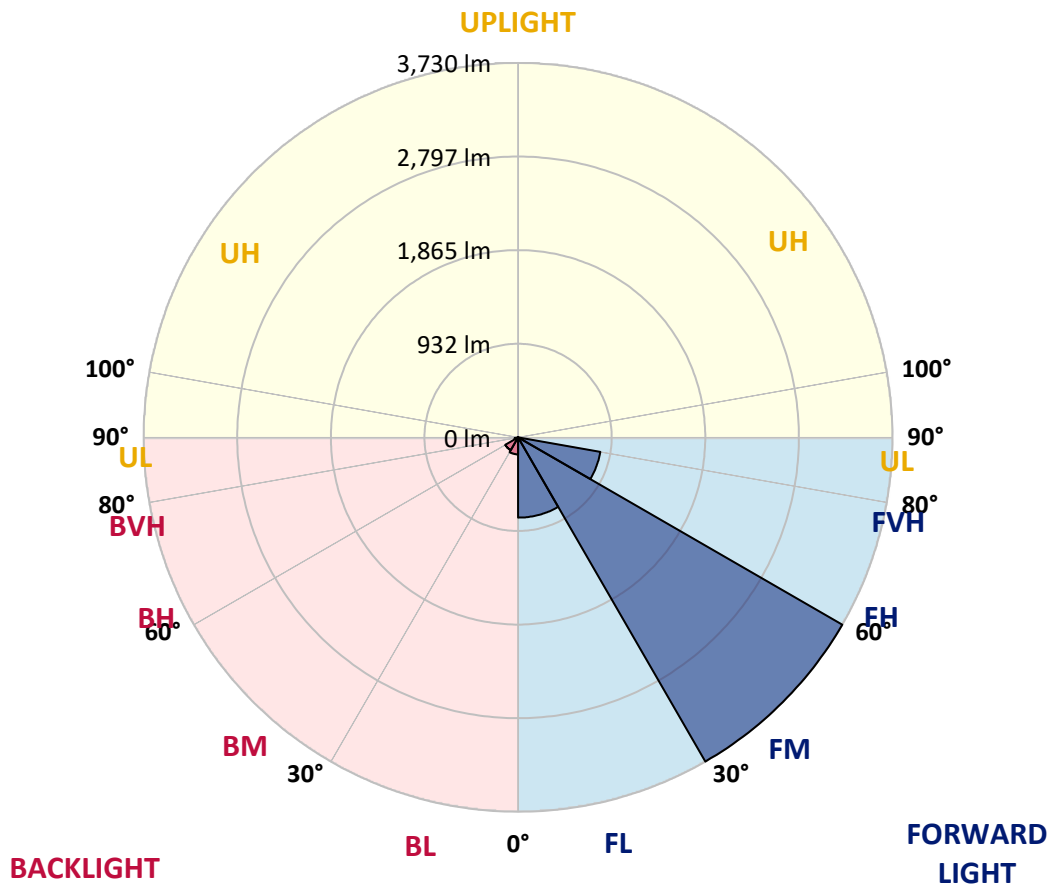
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.7	14.0			
FM (30°-60°)	3729.5	65.2			
FH (60°-80°)	831.6	14.5			G1/1800
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	169.6	3.0	B1/500		
BM (30°-60°)	147.5	2.6	B0/220		
BH (60°-80°)	35.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9
2.5°	1721.8	1713.5	1726.2	1711.5	1686.6	1665.6	1638.2	1628.4	1584.5	1542.9	1502.8
5°	1931.0	1933.4	1929.5	1909.0	1873.8	1834.7	1779.5	1767.2	1690.5	1611.3	1525.8
7.5°	1982.8	1981.3	1989.6	1997.4	1991.6	1972.0	1911.9	1899.7	1804.4	1685.6	1561.0
10°	1823.0	1823.9	1841.0	1893.8	1959.3	2027.2	2018.0	2011.1	1917.8	1769.7	1600.1
12.5°	1597.2	1606.0	1624.0	1699.3	1810.3	1964.7	2060.5	2067.3	2021.9	1862.1	1646.0
15°	1499.4	1501.4	1516.0	1561.5	1644.1	1834.7	2042.4	2061.5	2108.9	1954.9	1695.9
17.5°	1497.0	1499.4	1505.8	1525.8	1579.6	1732.5	1984.2	2017.5	2174.4	2054.6	1755.5
20°	1588.9	1587.4	1583.0	1572.2	1595.7	1698.8	1930.5	1967.1	2210.0	2151.9	1815.6
22.5°	1755.5	1753.6	1734.0	1689.5	1670.5	1729.6	1904.1	1937.3	2231.5	2238.4	1865.0
25°	1947.6	1961.3	1924.6	1857.2	1810.3	1808.3	1927.5	1951.0	2250.1	2315.1	1898.7
27.5°	2158.2	2162.6	2131.3	2055.6	1987.7	1934.4	1995.5	2013.1	2270.6	2383.5	1917.8
30°	2389.4	2387.9	2352.3	2264.3	2181.7	2105.0	2109.8	2116.7	2318.5	2461.7	1938.8
32.5°	2678.2	2684.6	2621.1	2501.3	2402.1	2296.0	2259.4	2260.4	2405.0	2562.4	1970.6
35°	3070.7	3055.0	2971.0	2800.4	2631.3	2517.0	2454.4	2449.0	2538.5	2697.8	2025.8
37.5°	3444.6	3446.0	3358.1	3170.4	2956.8	2776.5	2688.0	2673.3	2726.1	2885.5	2117.7
40°	3704.1	3709.0	3672.3	3574.1	3347.8	3092.7	2962.7	2947.5	2969.5	3123.0	2237.9
42.5°	3841.4	3855.1	3865.4	3888.3	3716.8	3487.6	3287.7	3286.2	3263.2	3393.7	2377.2
45°	3846.8	3867.3	3929.9	4086.7	4106.3	3938.2	3720.7	3687.9	3599.5	3683.5	2501.8
47.5°	3634.2	3681.6	3814.5	4125.4	4330.6	4386.3	4170.8	4150.8	3902.5	3912.8	2595.1
50°	3138.6	3188.0	3432.8	3927.4	4387.3	4742.1	4664.9	4623.4	4155.7	4064.3	2640.1
52.5°	2630.3	2675.3	2841.5	3456.3	4152.2	4854.1	5081.3	5032.0	4382.9	4117.1	2621.5
55°	1830.3	1890.4	2052.7	2583.4	3610.7	4636.1	5219.1	5208.9	4585.7	4083.8	2592.7
57.5°	897.3	956.9	1118.7	1592.8	2674.8	4047.7	5008.5	5062.7	4706.9	4048.1	2569.2
60°	374.9	399.3	455.0	698.9	1496.5	3059.0	4533.0	4608.2	4632.7	3999.8	2566.8
62.5°	217.5	221.4	227.3	289.8	582.1	1753.6	3760.3	3867.3	4242.2	3935.7	2528.2
65°	164.2	165.7	163.2	177.9	240.5	665.2	2716.8	2862.5	3540.8	3685.5	2375.7
67.5°	134.9	134.9	128.5	131.5	151.0	249.3	1499.9	1703.2	2620.1	3029.1	1961.8
70°	107.5	110.0	107.0	103.1	108.0	137.8	533.7	661.7	1525.8	1788.7	1144.1
72.5°	81.6	81.6	86.5	83.6	80.2	86.5	186.2	209.2	612.4	745.8	413.0
75°	63.0	65.0	68.4	65.5	60.6	51.3	89.4	94.8	184.7	173.5	92.4
77.5°	32.3	32.7	43.5	47.9	45.0	31.3	39.1	43.0	60.1	53.8	34.2
80°	19.5	20.5	24.4	37.6	29.8	16.6	16.1	17.1	28.3	24.4	14.2
82.5°	8.3	8.8	13.7	13.7	12.2	6.4	6.4	6.4	13.7	12.7	5.9
85°	0.0	0.0	2.4	2.0	2.0	2.4	2.4	2.4	3.4	4.9	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.5
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°	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9	1476.9
2.5°	1476.9	1445.7	1403.6	1365.5	1314.2	1285.4	1245.3	1212.5	1184.7	1175.9	1172.0
5°	1477.4	1423.7	1333.7	1243.8	1133.4	1046.4	956.9	886.1	827.9	809.3	804.4
7.5°	1487.2	1408.0	1262.4	1099.2	914.4	761.9	625.6	503.4	446.7	427.6	423.7
10°	1500.4	1394.8	1179.8	925.7	660.3	464.3	328.9	250.7	213.6	193.0	196.0
12.5°	1517.5	1384.1	1088.4	738.0	436.9	255.1	180.8	151.5	143.7	139.8	137.8
15°	1540.5	1371.4	975.0	551.8	267.8	164.2	139.3	131.5	128.5	126.6	126.1
17.5°	1563.9	1356.7	859.7	388.1	177.9	136.4	125.1	121.2	119.2	117.8	117.3
20°	1588.9	1331.8	724.3	267.3	140.3	122.7	115.3	110.9	108.5	106.1	105.6
22.5°	1599.6	1291.7	594.8	187.2	124.6	112.9	103.6	98.2	95.3	93.3	93.3
25°	1589.3	1226.7	460.9	142.2	113.4	102.1	92.9	87.0	84.6	82.6	82.6
27.5°	1562.0	1143.1	336.2	117.8	101.2	90.9	82.1	76.7	74.8	73.8	73.8
30°	1531.7	1037.6	237.0	101.2	87.5	79.2	71.8	68.4	67.9	67.0	67.0
32.5°	1505.8	938.8	163.2	88.9	77.2	68.9	64.0	62.6	63.0	62.1	62.6
35°	1491.6	842.1	121.2	79.2	68.9	61.1	58.6	58.6	58.6	58.2	58.2
37.5°	1497.5	746.8	98.7	72.3	61.6	55.7	53.3	54.2	55.2	55.2	55.2
40°	1526.8	662.2	87.5	66.0	55.2	50.8	48.9	50.3	51.8	52.8	52.8
42.5°	1563.9	593.8	79.2	60.6	50.8	45.9	45.0	46.4	47.9	48.9	48.9
45°	1587.4	524.9	70.9	53.8	46.4	40.6	40.6	42.5	42.0	42.5	42.5
47.5°	1598.1	470.2	62.6	46.4	39.6	35.2	35.7	36.7	35.7	36.7	36.7
50°	1571.8	414.9	55.2	38.6	32.7	30.8	31.8	31.3	31.3	33.2	33.2
52.5°	1523.4	373.9	48.9	32.7	27.9	27.4	28.3	26.4	26.9	26.9	26.4
55°	1487.7	350.4	43.5	28.3	23.9	24.4	23.9	20.5	18.6	16.6	16.1
57.5°	1470.1	341.1	39.6	25.4	21.5	21.5	19.5	14.2	10.8	8.3	7.3
60°	1466.2	329.9	35.7	22.0	19.1	18.1	14.2	8.3	5.4	3.9	3.4
62.5°	1429.0	302.5	32.3	17.6	16.6	14.7	8.8	4.9	2.9	2.0	1.5
65°	1307.3	248.8	28.8	13.7	12.7	10.8	5.4	2.9	1.5	0.5	0.0
67.5°	1040.0	176.4	25.4	10.3	8.8	6.8	3.4	2.0	0.5	0.0	0.0
70°	599.7	95.3	21.0	7.3	5.9	4.4	2.4	1.0	0.0	0.0	0.0
72.5°	200.4	44.5	16.1	4.9	4.4	3.4	1.5	0.5	0.0	0.0	0.0
75°	44.0	26.4	10.8	3.4	2.9	2.4	1.0	0.0	0.0	0.0	0.0
77.5°	16.6	18.6	5.4	2.4	2.0	1.5	0.5	0.0	0.0	0.0	0.0
80°	6.4	12.2	2.4	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	4.9	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	2.4	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.5	0.5	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)