

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: P631204

Luminaire Tested: GWS-SA1F-730-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631204  
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-SA1F-730-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

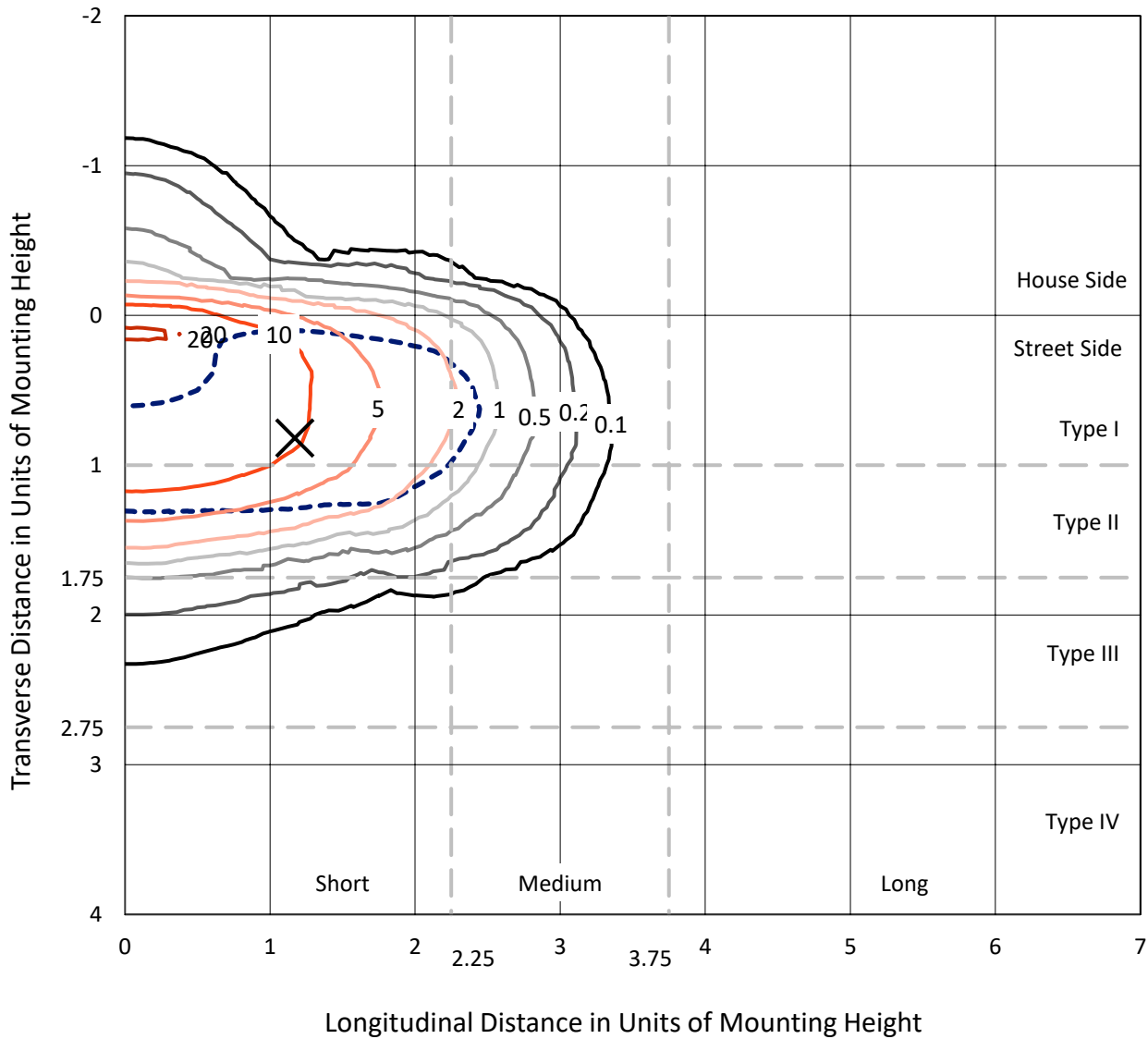
Lumens per Lamp: N/A  
Luminaire Lumens: 6433.5 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

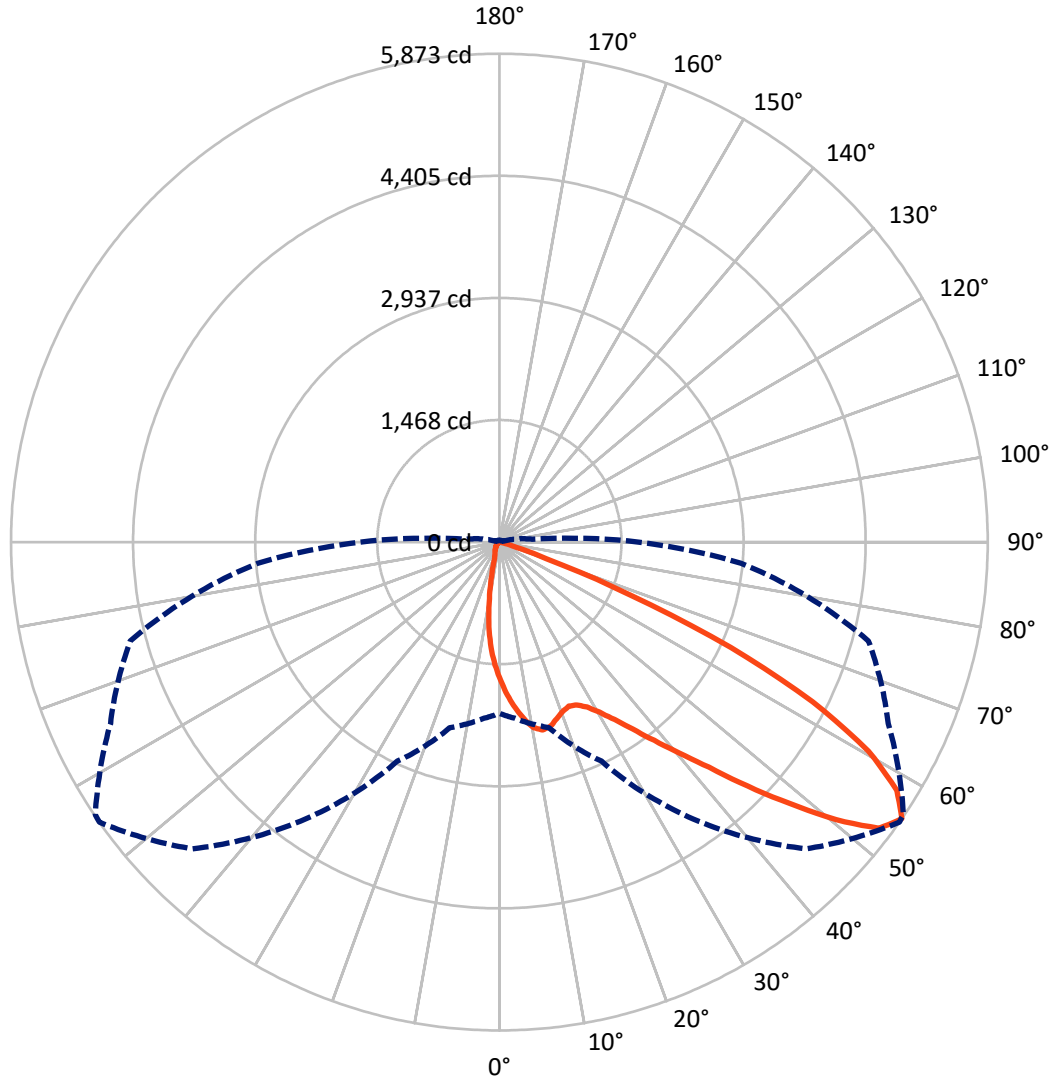
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 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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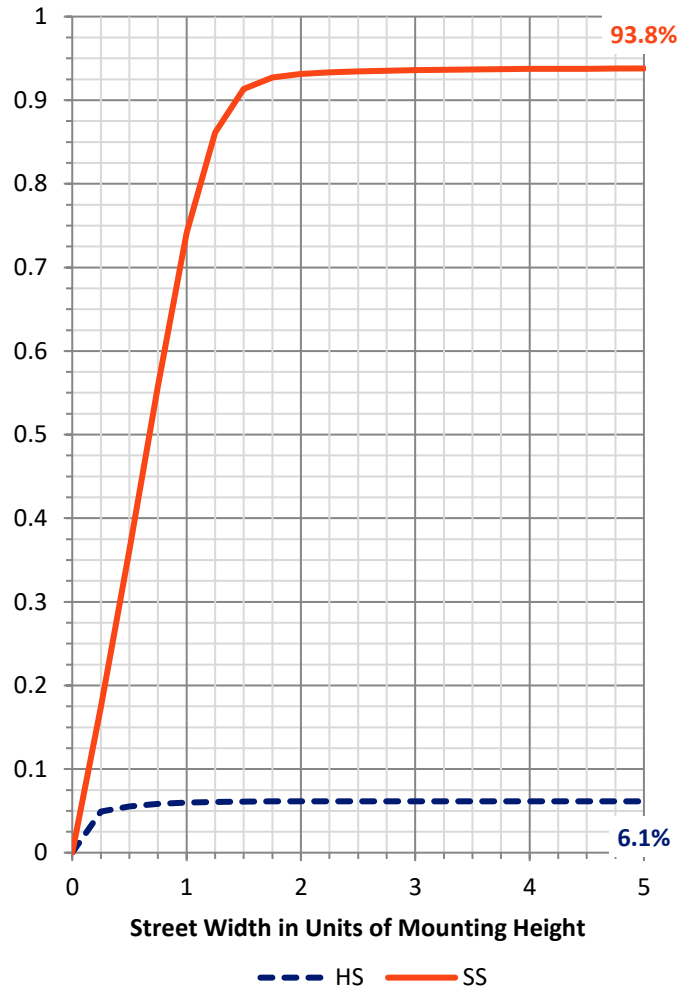
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	396.9	0.0	396.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	6036.6	0.0	6036.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	6433.5	0.0	6433.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	2.3
10°-20°	354.1	5.5
20°-30°	589.8	9.2
30°-40°	1005.0	15.6
40°-50°	1640.5	25.5
50°-60°	1717.5	26.7
60°-70°	866.3	13.5
70°-80°	109.4	1.7
80°-90°	4.1	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°	6433.5	100.0
0°-180°	6433.5	100.0

**Coefficient of Utilization**



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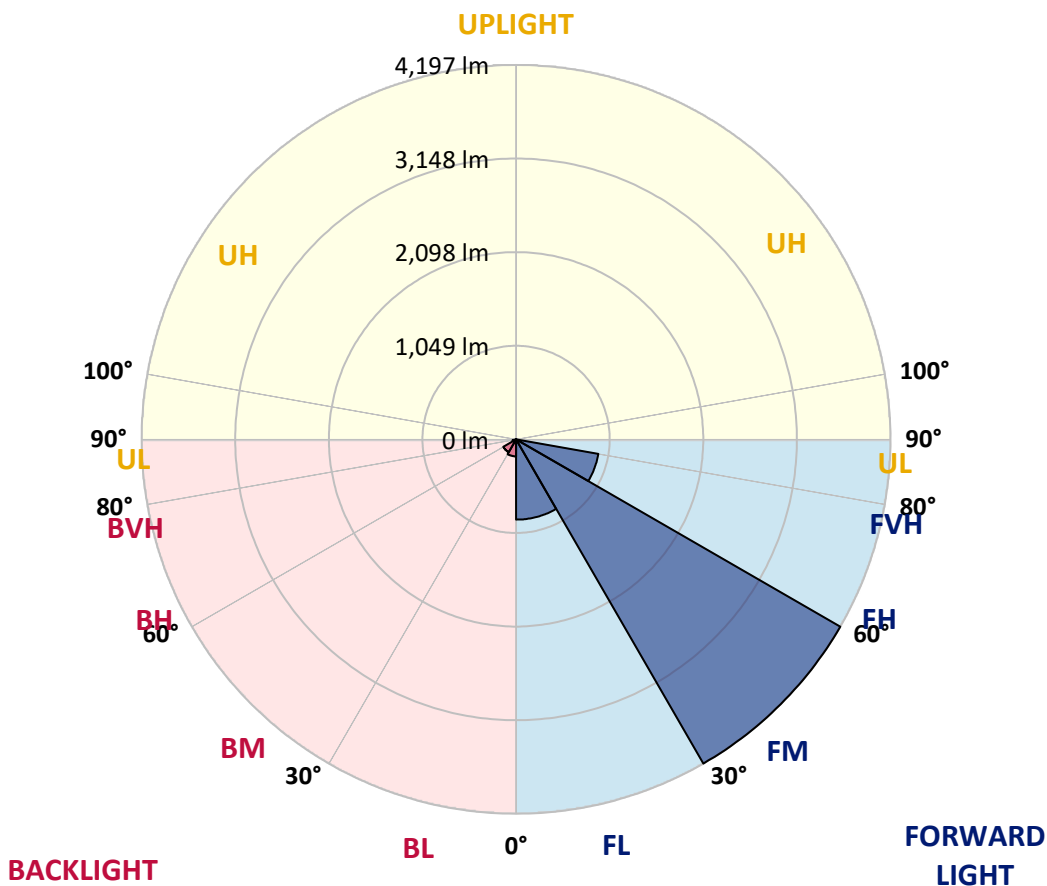
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.0	14.0			
FM (30°-60°)	4197.0	65.2			
FH (60°-80°)	935.9	14.5			G1/1800
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	190.8	3.0	B1/500		
BM (30°-60°)	166.0	2.6	B0/220		
BH (60°-80°)	39.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	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°	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1
2.5°	1937.6	1928.3	1942.6	1926.1	1898.0	1874.4	1843.6	1832.6	1783.1	1736.3	1691.2
5°	2173.0	2175.8	2171.4	2148.3	2108.7	2064.7	2002.5	1988.8	1902.4	1813.3	1717.1
7.5°	2231.3	2229.7	2239.0	2247.8	2241.2	2219.2	2151.6	2137.8	2030.6	1896.9	1756.7
10°	2051.5	2052.6	2071.8	2131.2	2204.9	2281.4	2270.9	2263.2	2158.2	1991.5	1800.7
12.5°	1797.4	1807.3	1827.6	1912.3	2037.2	2211.0	2318.8	2326.5	2275.3	2095.5	1852.4
15°	1687.4	1689.6	1706.1	1757.2	1850.2	2064.7	2298.4	2319.9	2373.2	2200.0	1908.5
17.5°	1684.6	1687.4	1694.5	1717.1	1777.6	1949.7	2233.0	2270.4	2446.9	2312.2	1975.6
20°	1788.0	1786.4	1781.4	1769.3	1795.7	1911.8	2172.5	2213.7	2487.0	2421.6	2043.2
22.5°	1975.6	1973.4	1951.4	1901.3	1879.9	1946.4	2142.8	2180.2	2511.2	2518.9	2098.8
25°	2191.7	2207.1	2165.9	2090.0	2037.2	2035.0	2169.2	2195.6	2532.1	2605.3	2136.7
27.5°	2428.7	2433.7	2398.5	2313.3	2236.8	2176.9	2245.6	2265.4	2555.2	2682.3	2158.2
30°	2688.9	2687.2	2647.1	2548.1	2455.1	2368.8	2374.3	2382.0	2609.1	2770.3	2181.8
32.5°	3013.9	3021.1	2949.6	2814.8	2703.2	2583.8	2542.6	2543.7	2706.5	2883.6	2217.6
35°	3455.6	3438.0	3343.4	3151.4	2961.1	2832.4	2762.0	2756.0	2856.6	3035.9	2279.7
37.5°	3876.3	3878.0	3779.0	3567.8	3327.4	3124.5	3024.9	3008.4	3067.8	3247.1	2383.1
40°	4168.4	4173.9	4132.6	4022.1	3767.4	3480.3	3334.0	3317.0	3341.7	3514.4	2518.4
42.5°	4322.9	4338.3	4349.9	4375.7	4182.7	3924.7	3699.8	3698.1	3672.3	3819.1	2675.1
45°	4329.0	4352.1	4422.5	4599.0	4621.0	4431.8	4187.1	4150.2	4050.7	4145.3	2815.4
47.5°	4089.7	4143.1	4292.7	4642.5	4873.4	4936.1	4693.6	4671.1	4391.7	4403.2	2920.4
50°	3532.0	3587.6	3863.1	4419.7	4937.2	5336.5	5249.6	5202.9	4676.6	4573.7	2971.0
52.5°	2960.0	3010.6	3197.6	3889.5	4672.7	5462.5	5718.2	5662.7	4932.3	4633.1	2950.1
55°	2059.7	2127.4	2310.0	2907.2	4063.3	5217.2	5873.3	5861.8	5160.5	4595.7	2917.7
57.5°	1009.8	1076.9	1258.9	1792.4	3010.1	4555.0	5636.3	5697.3	5296.9	4555.6	2891.3
60°	421.8	449.3	512.0	786.5	1684.1	3442.4	5101.1	5185.8	5213.3	4501.1	2888.5
62.5°	244.7	249.1	255.7	326.1	655.0	1973.4	4231.6	4352.1	4773.9	4429.1	2845.1
65°	184.8	186.4	183.7	200.2	270.6	748.5	3057.4	3221.3	3984.7	4147.5	2673.5
67.5°	151.8	151.8	144.6	147.9	169.9	280.5	1687.9	1916.7	2948.5	3408.8	2207.7
70°	121.0	123.7	120.4	116.0	121.5	155.1	600.6	744.7	1717.1	2013.0	1287.5
72.5°	91.8	91.8	97.3	94.0	90.2	97.3	209.5	235.4	689.1	839.3	464.7
75°	70.9	73.1	77.0	73.7	68.2	57.7	100.6	106.7	207.9	195.2	103.9
77.5°	36.3	36.8	48.9	53.9	50.6	35.2	44.0	48.4	67.6	60.5	38.5
80°	22.0	23.1	27.5	42.3	33.5	18.7	18.1	19.2	31.9	27.5	15.9
82.5°	9.3	9.9	15.4	15.4	13.7	7.1	7.1	7.1	15.4	14.3	6.6
85°	0.0	0.0	2.7	2.2	2.2	2.7	2.7	2.7	3.8	5.5	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.6
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°	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1	1662.1
2.5°	1662.1	1626.9	1579.6	1536.7	1478.9	1446.5	1401.4	1364.5	1333.2	1323.3	1318.9
5°	1662.6	1602.1	1500.9	1399.7	1275.4	1177.5	1076.9	997.1	931.7	910.8	905.3
7.5°	1673.6	1584.5	1420.6	1236.9	1029.0	857.4	704.0	566.5	502.7	481.2	476.8
10°	1688.5	1569.7	1327.7	1041.7	743.0	522.5	370.1	282.1	240.3	217.2	220.5
12.5°	1707.7	1557.6	1224.8	830.5	491.7	287.1	203.5	170.5	161.7	157.3	155.1
15°	1733.6	1543.3	1097.2	620.9	301.4	184.8	156.7	147.9	144.6	142.4	141.9
17.5°	1760.0	1526.8	967.4	436.7	200.2	153.4	140.8	136.4	134.2	132.5	132.0
20°	1788.0	1498.7	815.1	300.8	157.8	138.0	129.8	124.8	122.1	119.3	118.8
22.5°	1800.1	1453.6	669.3	210.6	140.2	127.0	116.6	110.5	107.2	105.0	105.0
25°	1788.6	1380.5	518.6	160.0	127.6	114.9	104.5	97.9	95.1	92.9	92.9
27.5°	1757.8	1286.4	378.4	132.5	113.8	102.3	92.4	86.3	84.1	83.0	83.0
30°	1723.7	1167.6	266.7	113.8	98.4	89.1	80.8	77.0	76.4	75.3	75.3
32.5°	1694.5	1056.5	183.7	100.1	86.9	77.5	72.0	70.4	70.9	69.8	70.4
35°	1678.6	947.6	136.4	89.1	77.5	68.7	66.0	66.0	66.0	65.4	65.4
37.5°	1685.2	840.4	111.1	81.4	69.3	62.7	59.9	61.0	62.1	62.1	62.1
40°	1718.2	745.2	98.4	74.2	62.1	57.2	55.0	56.6	58.3	59.4	59.4
42.5°	1760.0	668.2	89.1	68.2	57.2	51.7	50.6	52.2	53.9	55.0	55.0
45°	1786.4	590.7	79.7	60.5	52.2	45.6	45.6	47.8	47.3	47.8	47.8
47.5°	1798.5	529.1	70.4	52.2	44.5	39.6	40.1	41.2	40.1	41.2	41.2
50°	1768.8	466.9	62.1	43.4	36.8	34.6	35.7	35.2	35.2	37.4	37.4
52.5°	1714.3	420.7	55.0	36.8	31.3	30.8	31.9	29.7	30.2	30.2	29.7
55°	1674.2	394.3	48.9	31.9	26.9	27.5	26.9	23.1	20.9	18.7	18.1
57.5°	1654.4	383.9	44.5	28.6	24.2	24.2	22.0	15.9	12.1	9.3	8.2
60°	1650.0	371.2	40.1	24.7	21.4	20.3	15.9	9.3	6.0	4.4	3.8
62.5°	1608.2	340.4	36.3	19.8	18.7	16.5	9.9	5.5	3.3	2.2	1.6
65°	1471.2	279.9	32.4	15.4	14.3	12.1	6.0	3.3	1.6	0.5	0.0
67.5°	1170.4	198.5	28.6	11.5	9.9	7.7	3.8	2.2	0.5	0.0	0.0
70°	674.8	107.2	23.6	8.2	6.6	4.9	2.7	1.1	0.0	0.0	0.0
72.5°	225.5	50.0	18.1	5.5	4.9	3.8	1.6	0.5	0.0	0.0	0.0
75°	49.5	29.7	12.1	3.8	3.3	2.7	1.1	0.0	0.0	0.0	0.0
77.5°	18.7	20.9	6.0	2.7	2.2	1.6	0.5	0.0	0.0	0.0	0.0
80°	7.1	13.7	2.7	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	5.5	1.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	2.7	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)