

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: P634504

Luminaire Tested: GWS-SA3B-830-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634504  
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-SA3B-830-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

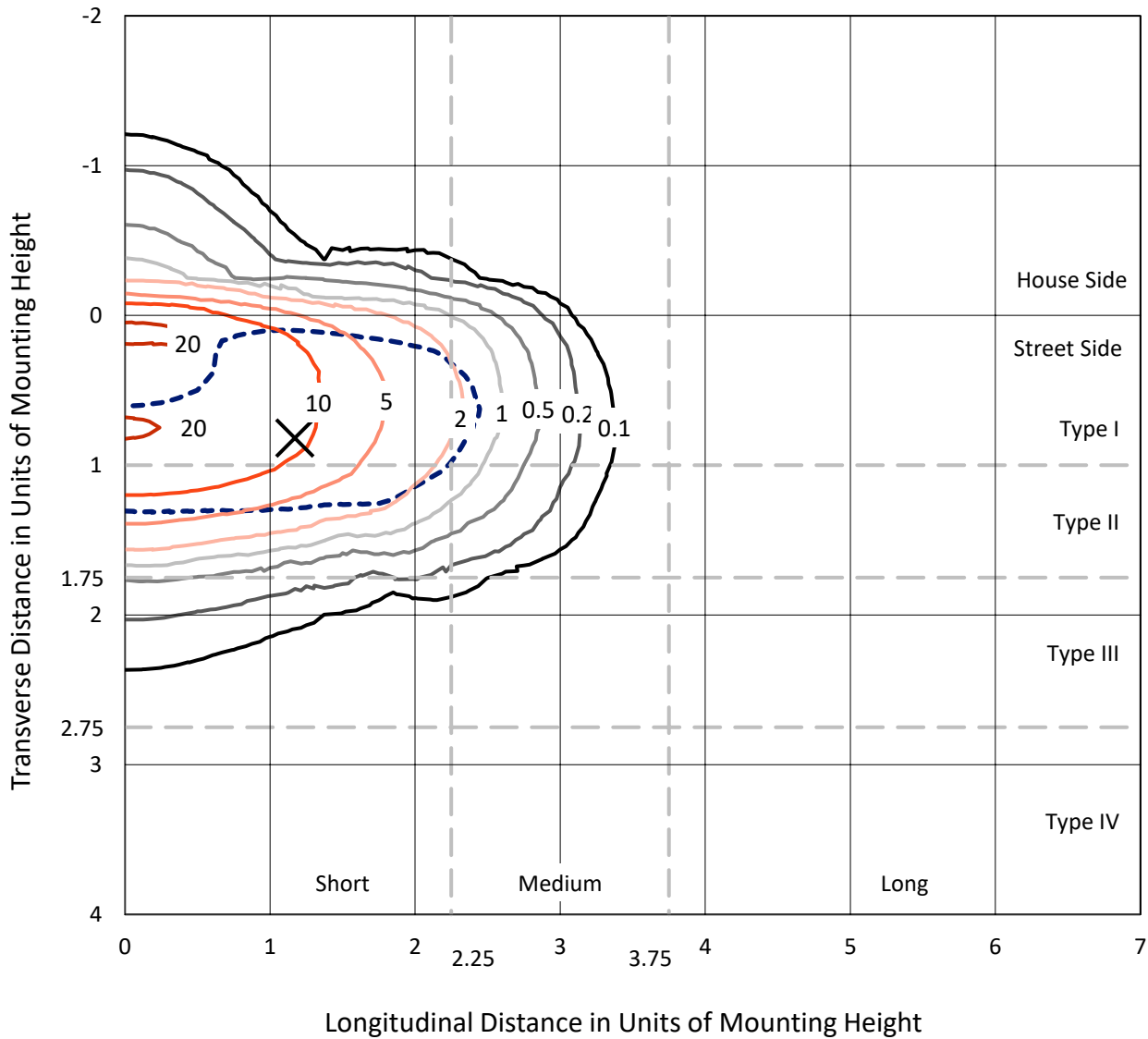
Lumens per Lamp: N/A  
Luminaire Lumens: 6929.2 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

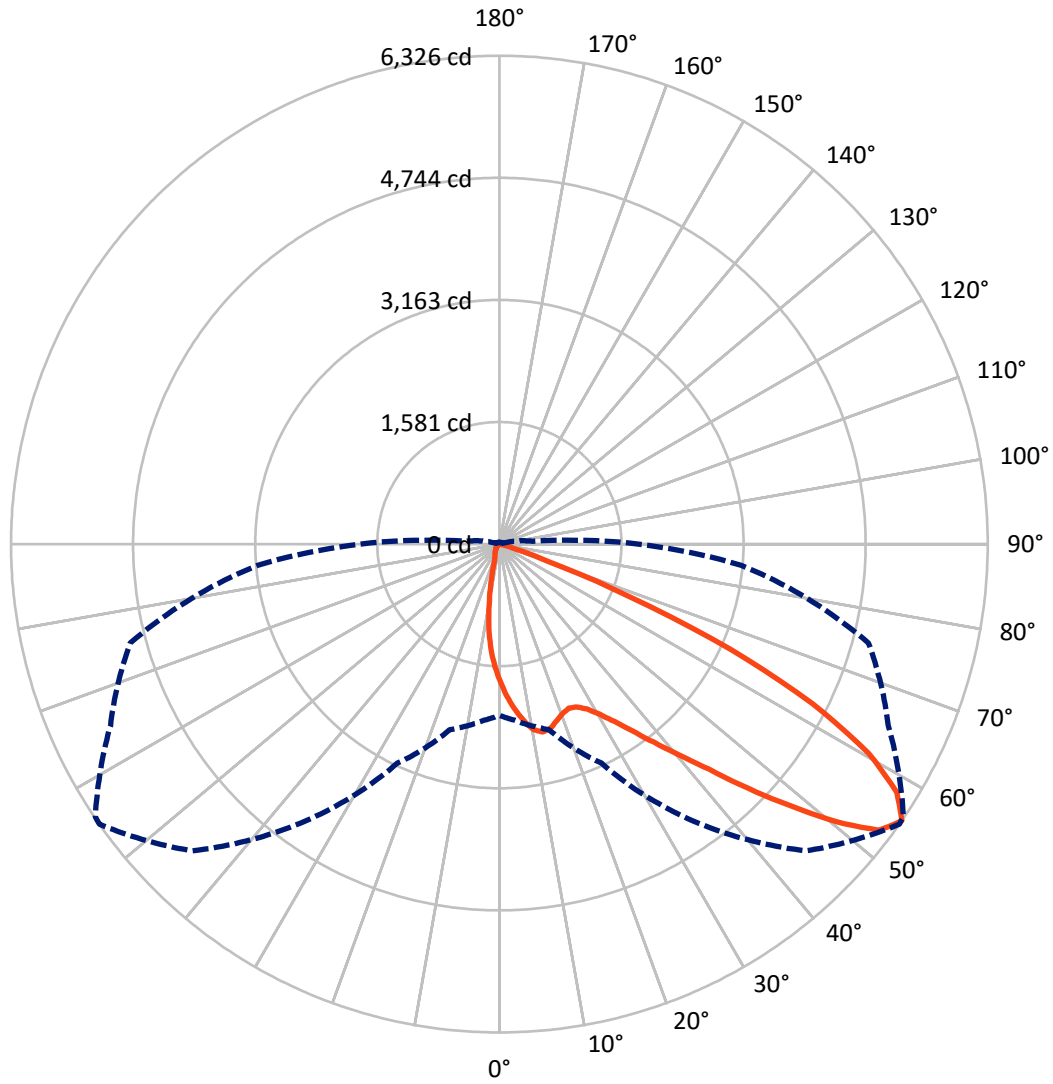
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.5 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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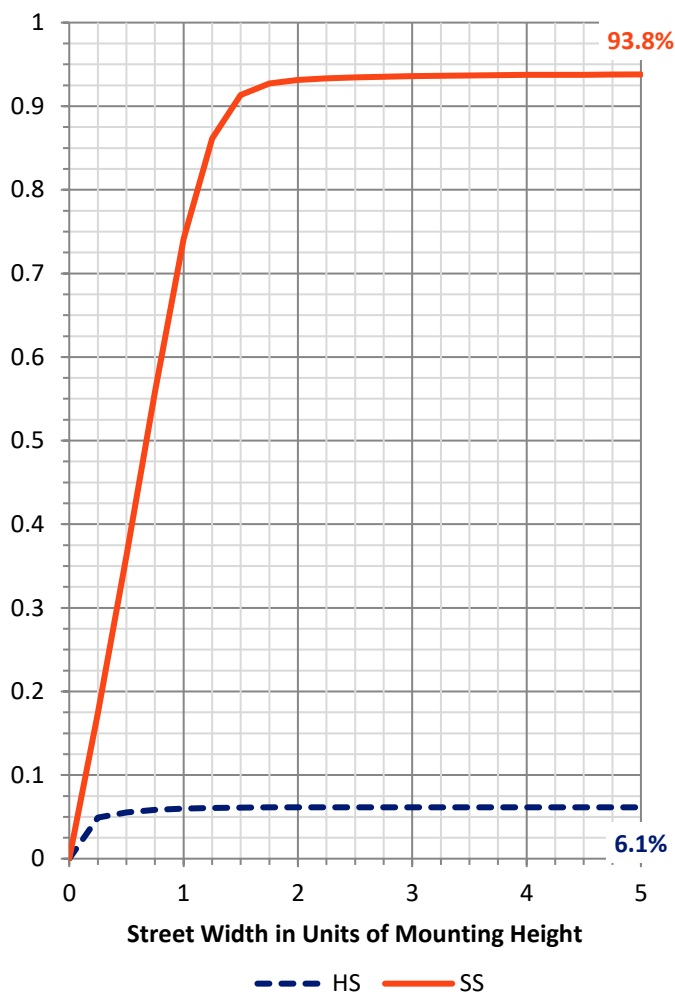
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	427.6	0.0	427.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	6501.6	0.0	6501.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	6929.2	0.0	6929.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	2.3
10°-20°	381.4	5.5
20°-30°	635.2	9.2
30°-40°	1082.4	15.6
40°-50°	1766.9	25.5
50°-60°	1849.8	26.7
60°-70°	933.0	13.5
70°-80°	117.9	1.7
80°-90°	4.5	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°	6929.2	100.0
0°-180°	6929.2	100.0

**Coefficient of Utilization**



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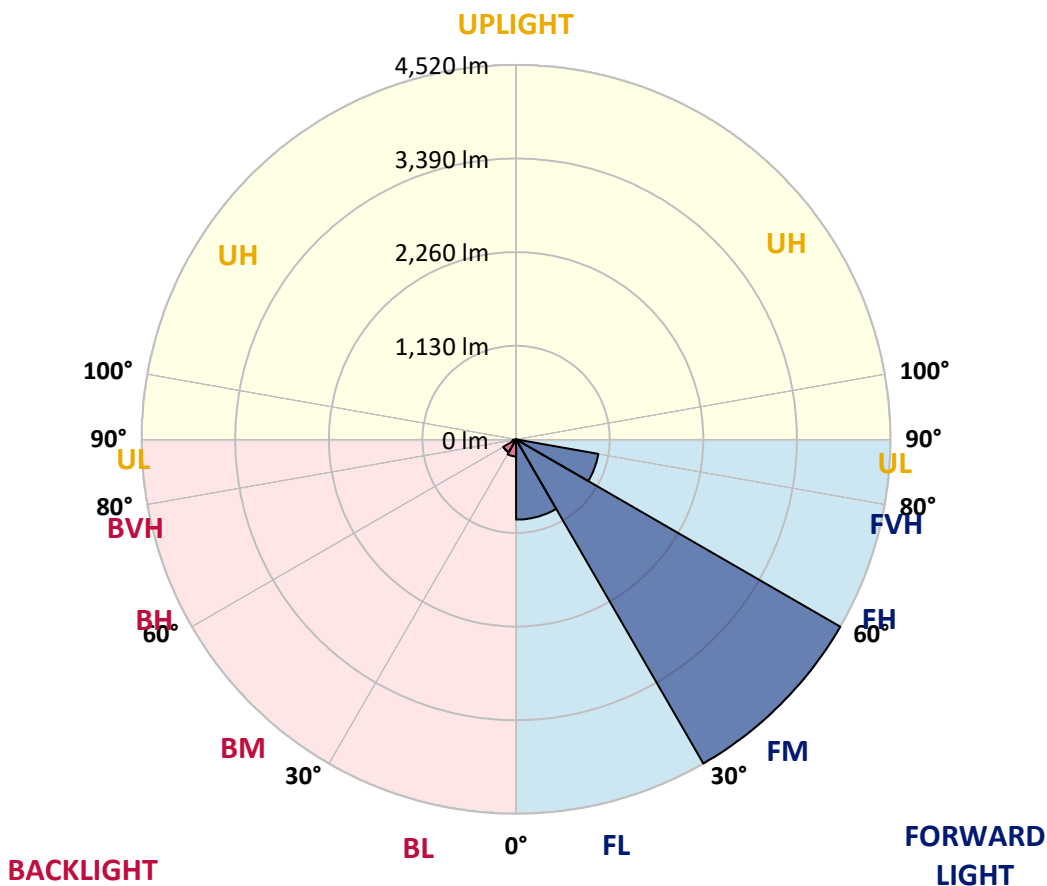
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.3	14.0			
FM (30°-60°)	4520.3	65.2			
FH (60°-80°)	1008.0	14.5			G1/1800
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	205.5	3.0	B1/500		
BM (30°-60°)	178.8	2.6	B0/220		
BH (60°-80°)	42.9	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°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	2086.9	2076.8	2092.2	2074.4	2044.2	2018.7	1985.6	1973.7	1920.4	1870.1	1821.5
5°	2340.4	2343.4	2338.6	2313.7	2271.1	2223.7	2156.8	2142.0	2049.0	1953.0	1849.3
7.5°	2403.2	2401.4	2411.5	2421.0	2413.9	2390.2	2317.3	2302.5	2187.0	2043.0	1892.0
10°	2209.5	2210.7	2231.4	2295.4	2374.8	2457.1	2445.8	2437.5	2324.4	2144.9	1939.4
12.5°	1935.8	1946.5	1968.4	2059.6	2194.1	2381.3	2497.4	2505.7	2450.6	2256.9	1995.1
15°	1817.3	1819.7	1837.5	1892.6	1992.7	2223.7	2475.5	2498.6	2556.0	2369.4	2055.5
17.5°	1814.4	1817.3	1825.0	1849.3	1914.5	2099.9	2405.0	2445.2	2635.4	2490.3	2127.7
20°	1925.7	1924.0	1918.6	1905.6	1934.0	2059.0	2339.8	2384.2	2678.6	2608.1	2200.6
22.5°	2127.7	2125.4	2101.7	2047.8	2024.7	2096.3	2307.8	2348.1	2704.7	2713.0	2260.4
25°	2360.5	2377.1	2332.7	2251.0	2194.1	2191.7	2336.3	2364.7	2727.2	2806.0	2301.3
27.5°	2615.8	2621.2	2583.3	2491.4	2409.1	2344.5	2418.6	2439.9	2752.1	2888.9	2324.4
30°	2896.0	2894.3	2851.0	2744.4	2644.3	2551.3	2557.2	2565.5	2810.1	2983.7	2349.9
32.5°	3246.1	3253.8	3176.8	3031.7	2911.4	2782.9	2738.5	2739.6	2915.0	3105.7	2388.4
35°	3721.8	3702.8	3600.9	3394.2	3189.2	3050.6	2974.8	2968.3	3076.7	3269.8	2455.3
37.5°	4174.9	4176.7	4070.1	3842.6	3583.8	3365.2	3258.0	3240.2	3304.2	3497.3	2566.7
40°	4489.5	4495.4	4451.0	4331.9	4057.6	3748.4	3590.9	3572.5	3599.2	3785.2	2712.4
42.5°	4655.9	4672.5	4684.9	4712.8	4504.9	4227.1	3984.8	3983.0	3955.2	4113.3	2881.2
45°	4662.4	4687.3	4763.1	4953.3	4977.0	4773.2	4509.6	4469.9	4362.7	4464.6	3032.3
47.5°	4404.8	4462.2	4623.3	5000.1	5248.9	5316.4	5055.2	5030.9	4730.0	4742.4	3145.4
50°	3804.1	3863.9	4160.7	4760.2	5317.6	5747.6	5654.0	5603.7	5036.8	4926.0	3199.9
52.5°	3188.1	3242.6	3444.0	4189.1	5032.7	5883.3	6158.7	6098.9	5312.2	4990.0	3177.4
55°	2218.4	2291.2	2487.9	3131.2	4376.3	5619.1	6325.8	6313.3	5558.1	4949.7	3142.4
57.5°	1087.6	1159.8	1355.9	1930.5	3242.0	4905.9	6070.5	6136.2	5705.0	4906.5	3114.0
60°	454.3	484.0	551.5	847.1	1813.8	3707.6	5494.1	5585.3	5614.9	4847.8	3111.1
62.5°	263.6	268.3	275.4	351.3	705.5	2125.4	4557.6	4687.3	5141.6	4770.2	3064.3
65°	199.0	200.8	197.8	215.6	291.4	806.2	3292.9	3469.4	4291.6	4467.0	2879.4
67.5°	163.5	163.5	155.8	159.3	183.0	302.1	1817.9	2064.4	3175.6	3671.4	2377.7
70°	130.3	133.3	129.7	125.0	130.9	167.0	646.9	802.0	1849.3	2168.0	1386.7
72.5°	98.9	98.9	104.8	101.3	97.1	104.8	225.7	253.5	742.2	903.9	500.5
75°	76.4	78.8	82.9	79.4	73.5	62.2	108.4	114.9	223.9	210.3	112.0
77.5°	39.1	39.7	52.7	58.1	54.5	37.9	47.4	52.1	72.9	65.2	41.5
80°	23.7	24.9	29.6	45.6	36.1	20.1	19.5	20.7	34.4	29.6	17.2
82.5°	10.1	10.7	16.6	16.6	14.8	7.7	7.7	7.7	16.6	15.4	7.1
85°	0.0	0.0	3.0	2.4	2.4	3.0	3.0	3.0	4.1	5.9	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	1.8
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°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	1790.1	1752.2	1701.2	1655.0	1592.8	1557.9	1509.3	1469.6	1435.9	1425.2	1420.5
5°	1790.7	1725.5	1616.5	1507.5	1373.7	1268.2	1159.8	1073.9	1003.5	980.9	975.0
7.5°	1802.5	1706.6	1530.1	1332.2	1108.3	923.5	758.2	610.1	541.4	518.3	513.6
10°	1818.5	1690.6	1429.9	1121.9	800.3	562.7	398.7	303.9	258.9	234.0	237.5
12.5°	1839.3	1677.6	1319.2	894.5	529.6	309.2	219.2	183.6	174.2	169.4	167.0
15°	1867.1	1662.2	1181.7	668.8	324.6	199.0	168.8	159.3	155.8	153.4	152.8
17.5°	1895.5	1644.4	1042.0	470.3	215.6	165.3	151.6	146.9	144.5	142.8	142.2
20°	1925.7	1614.2	877.9	324.0	170.0	148.7	139.8	134.5	131.5	128.5	127.9
22.5°	1938.8	1565.6	720.9	226.9	151.1	136.8	125.6	119.1	115.5	113.1	113.1
25°	1926.3	1486.8	558.6	172.4	137.4	123.8	112.5	105.4	102.5	100.1	100.1
27.5°	1893.2	1385.5	407.5	142.8	122.6	110.2	99.5	93.0	90.6	89.4	89.4
30°	1856.4	1257.6	287.3	122.6	106.0	96.0	87.1	82.9	82.3	81.2	81.2
32.5°	1825.0	1137.9	197.8	107.8	93.6	83.5	77.6	75.8	76.4	75.2	75.8
35°	1807.9	1020.6	146.9	96.0	83.5	74.0	71.1	71.1	71.1	70.5	70.5
37.5°	1815.0	905.1	119.7	87.7	74.6	67.5	64.6	65.8	66.9	66.9	66.9
40°	1850.5	802.6	106.0	80.0	66.9	61.6	59.2	61.0	62.8	64.0	64.0
42.5°	1895.5	719.7	96.0	73.5	61.6	55.7	54.5	56.3	58.1	59.2	59.2
45°	1924.0	636.2	85.9	65.2	56.3	49.2	49.2	51.5	50.9	51.5	51.5
47.5°	1937.0	569.8	75.8	56.3	48.0	42.6	43.2	44.4	43.2	44.4	44.4
50°	1905.0	502.9	66.9	46.8	39.7	37.3	38.5	37.9	37.9	40.3	40.3
52.5°	1846.4	453.2	59.2	39.7	33.8	33.2	34.4	32.0	32.6	32.6	32.0
55°	1803.1	424.7	52.7	34.4	29.0	29.6	29.0	24.9	22.5	20.1	19.5
57.5°	1781.8	413.5	48.0	30.8	26.1	26.1	23.7	17.2	13.0	10.1	8.9
60°	1777.1	399.8	43.2	26.7	23.1	21.9	17.2	10.1	6.5	4.7	4.1
62.5°	1732.0	366.7	39.1	21.3	20.1	17.8	10.7	5.9	3.6	2.4	1.8
65°	1584.6	301.5	34.9	16.6	15.4	13.0	6.5	3.6	1.8	0.6	0.0
67.5°	1260.5	213.8	30.8	12.4	10.7	8.3	4.1	2.4	0.6	0.0	0.0
70°	726.8	115.5	25.5	8.9	7.1	5.3	3.0	1.2	0.0	0.0	0.0
72.5°	242.9	53.9	19.5	5.9	5.3	4.1	1.8	0.6	0.0	0.0	0.0
75°	53.3	32.0	13.0	4.1	3.6	3.0	1.2	0.0	0.0	0.0	0.0
77.5°	20.1	22.5	6.5	3.0	2.4	1.8	0.6	0.0	0.0	0.0	0.0
80°	7.7	14.8	3.0	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	5.9	1.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	3.0	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	0.6	0.6	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)