

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: P637510

Luminaire Tested: GWS-SA4C-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637510  
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-SA4C-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

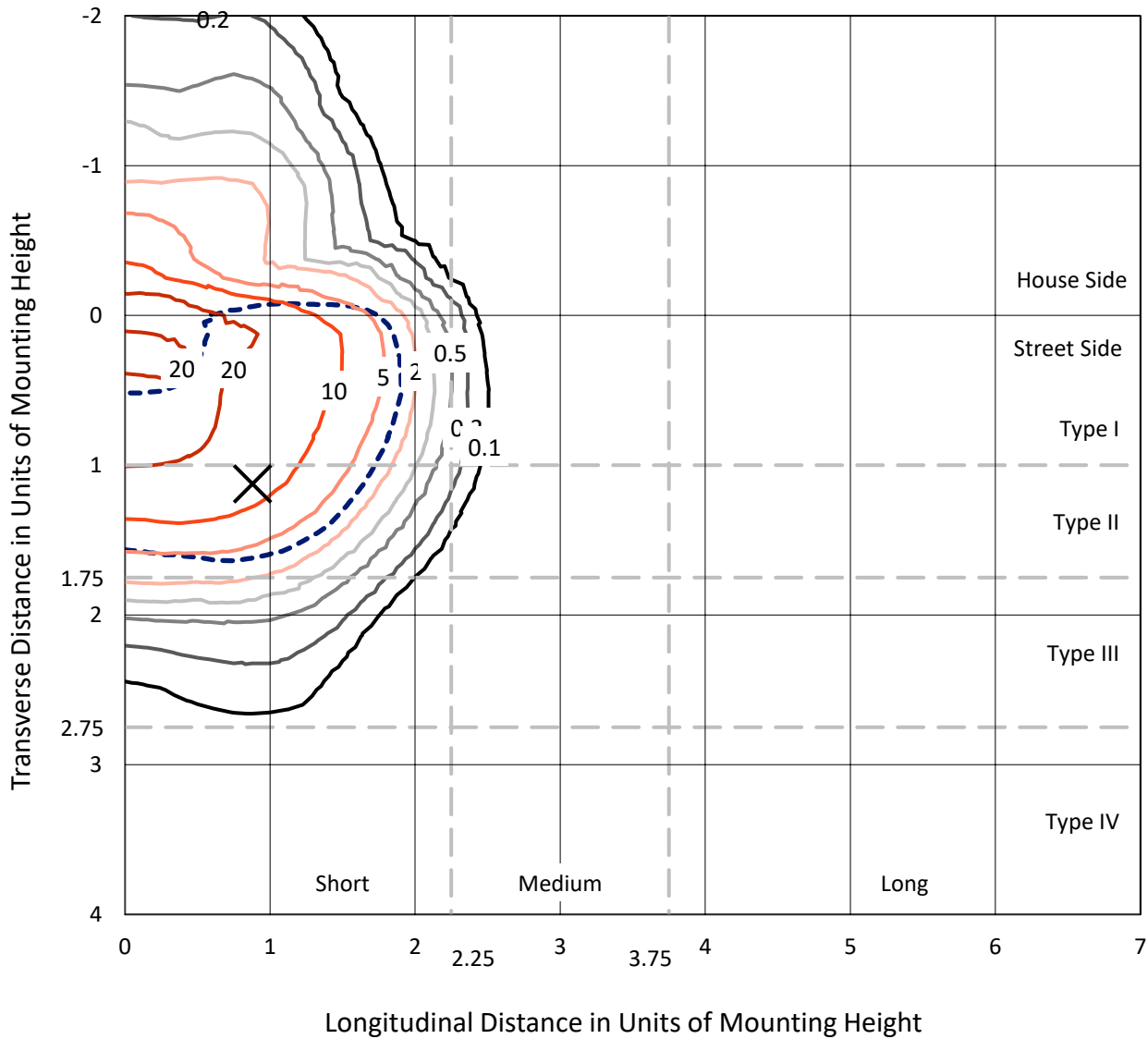
Lumens per Lamp: N/A  
Luminaire Lumens: 9671.5 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

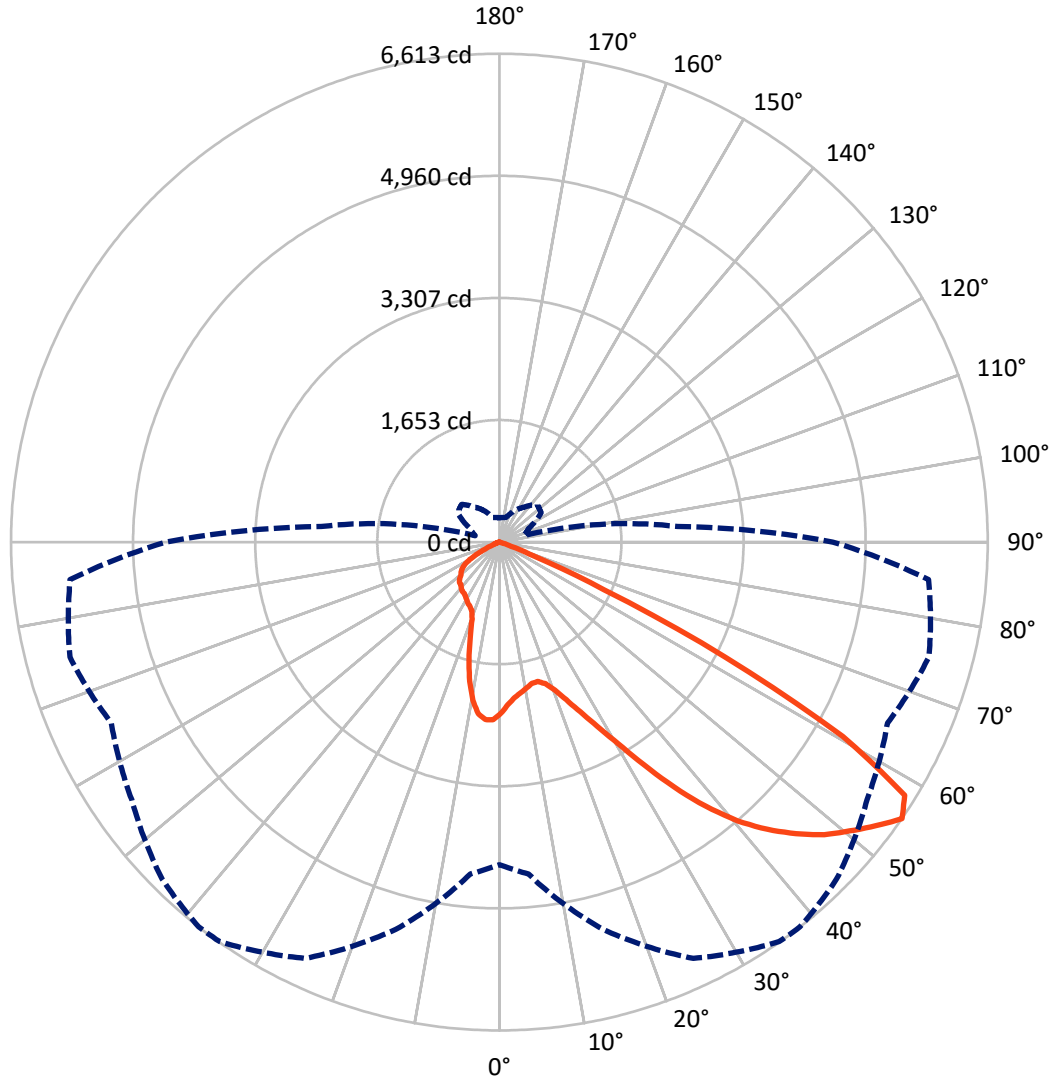
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.2 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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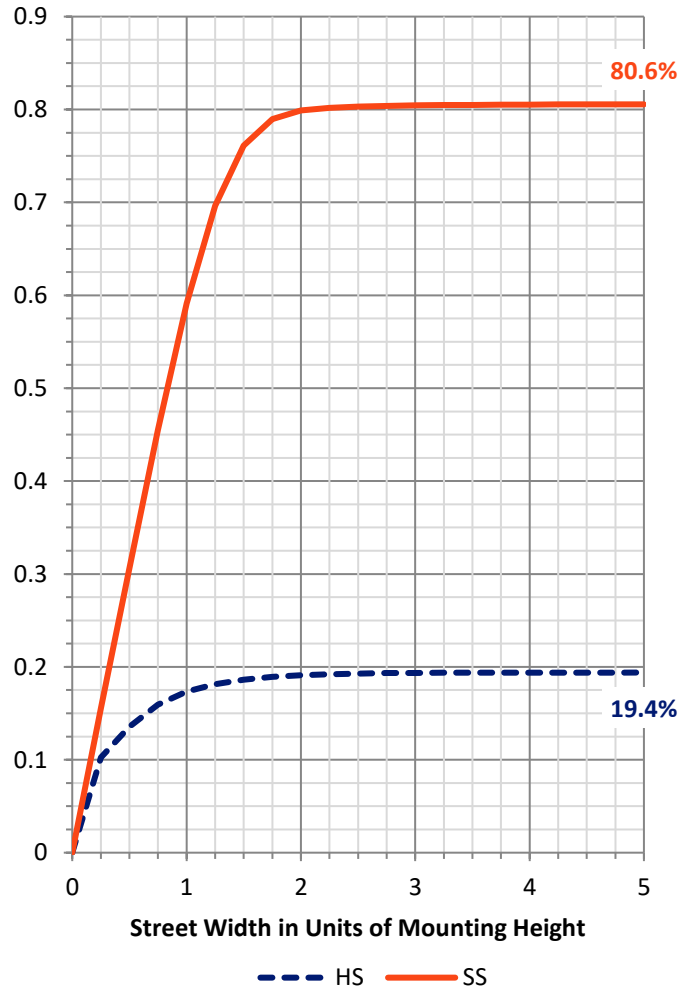
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1884.3	0.0	1884.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	7787.2	0.0	7787.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	9671.5	0.0	9671.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.4	2.2
10°-20°	577.3	6.0
20°-30°	990.7	10.2
30°-40°	1643.2	17.0
40°-50°	2415.6	25.0
50°-60°	2822.6	29.2
60°-70°	956.8	9.9
70°-80°	48.9	0.5
80°-90°	1.9	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°	9671.5	100.0
0°-180°	9671.5	100.0

**Coefficient of Utilization**



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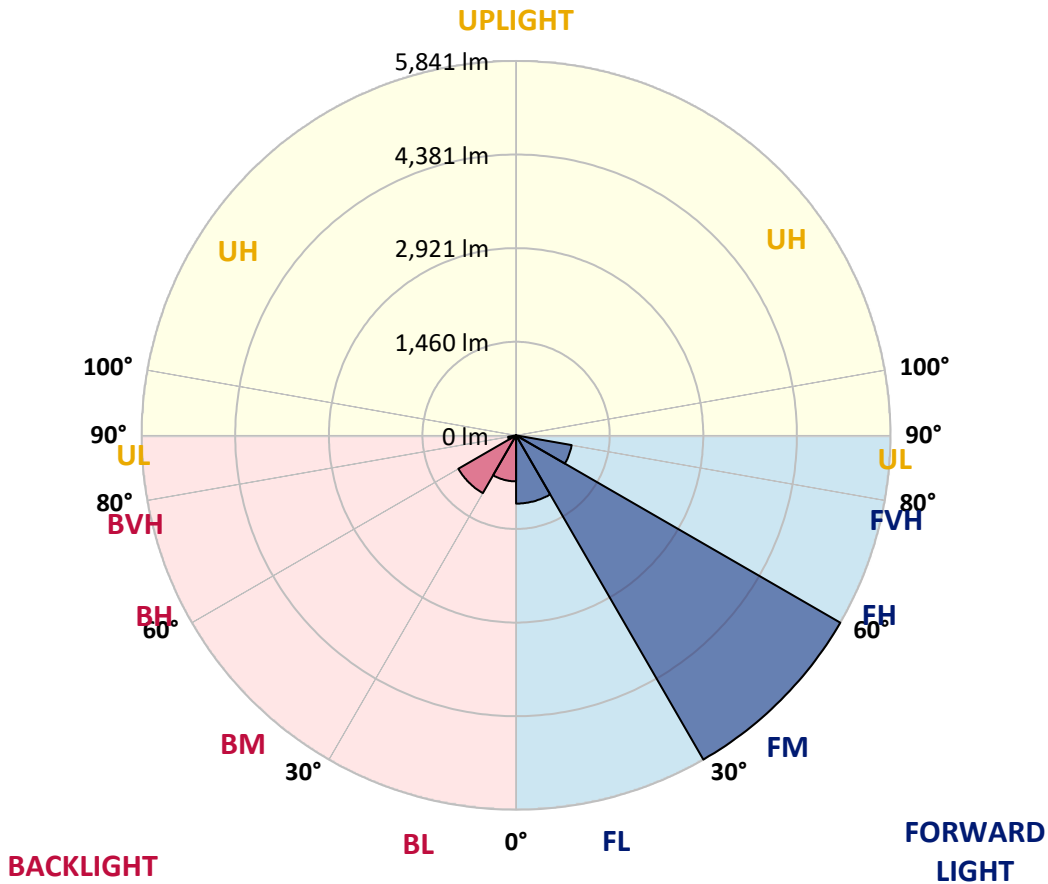
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.6	11.0			
FM (30°-60°)	5841.3	60.4			
FH (60°-80°)	880.3	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	717.9	7.4	B2/1000		
BM (30°-60°)	1040.1	10.8	B2/2500		
BH (60°-80°)	125.4	1.3	B1/500		G1/500
BVH (80°-90°)	0.9	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°	38°	45°	55°	65°	75°	85°
0°	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3
2.5°	2160.1	2155.7	2164.5	2182.2	2198.8	2204.3	2220.9	2244.1	2258.5	2292.8	2320.4
5°	2062.8	2060.6	2069.5	2084.9	2107.0	2114.8	2140.2	2178.9	2217.6	2277.3	2335.9
7.5°	1974.4	1973.3	1986.5	2020.8	2052.9	2062.8	2093.8	2141.3	2193.3	2285.0	2371.3
10°	1858.3	1859.4	1884.8	1933.5	1992.1	2012.0	2061.7	2130.3	2197.7	2316.0	2435.4
12.5°	1820.7	1822.9	1836.2	1873.8	1937.9	1963.3	2033.0	2136.9	2223.1	2360.2	2518.3
15°	1912.5	1912.5	1901.4	1905.8	1934.6	1957.8	2030.8	2159.0	2266.2	2413.3	2600.1
17.5°	2090.5	2083.8	2056.2	2018.6	2008.7	2016.4	2075.0	2206.5	2327.0	2475.2	2693.0
20°	2331.5	2333.7	2279.5	2201.0	2138.0	2136.9	2172.3	2290.6	2414.4	2549.2	2793.6
22.5°	2623.3	2614.5	2542.6	2435.4	2325.9	2317.1	2331.5	2418.8	2540.4	2666.4	2917.4
25°	2961.6	2957.2	2855.5	2711.7	2566.9	2545.9	2545.9	2632.2	2720.6	2833.3	3065.5
27.5°	3315.3	3315.3	3217.0	3051.1	2858.8	2821.2	2815.7	2917.4	2976.0	2998.1	3190.4
30°	3679.0	3674.6	3577.3	3407.1	3201.5	3162.8	3147.3	3222.5	3264.5	3198.2	3346.3
32.5°	4048.3	4056.0	3957.6	3799.5	3616.0	3590.6	3543.1	3543.1	3577.3	3484.5	3591.7
35°	4445.1	4442.9	4365.5	4258.3	4101.3	4072.6	3994.1	3871.4	3923.4	3882.5	3931.1
37.5°	4795.6	4812.2	4774.6	4695.0	4567.8	4539.1	4409.8	4187.6	4227.4	4291.5	4334.6
40°	5151.5	5164.8	5202.4	5177.0	5016.7	4963.6	4733.7	4368.9	4413.1	4633.1	4756.9
42.5°	5500.9	5507.5	5583.8	5625.8	5411.3	5318.5	4979.1	4479.4	4525.8	4900.6	5117.3
45°	5723.1	5737.4	5863.5	5991.7	5759.6	5632.4	5192.4	4620.9	4640.8	5086.3	5383.7
47.5°	5714.2	5747.4	5984.0	6217.2	6059.1	5922.1	5448.9	4847.5	4814.4	5261.0	5559.5
50°	5536.3	5576.0	5915.4	6285.8	6274.7	6147.6	5734.1	5175.9	5071.9	5415.8	5581.6
52.5°	5167.0	5282.0	5794.9	6294.6	6448.3	6384.2	6086.8	5618.1	5420.2	5638.0	5617.0
55°	4368.9	4510.4	5429.0	6219.4	6605.3	6613.0	6457.1	6079.0	5798.2	6020.5	5834.7
57.5°	3316.4	3429.2	4178.7	5536.3	6345.5	6472.6	6600.8	6322.2	6031.5	6281.3	5885.6
60°	1998.7	2129.2	2616.7	4062.6	5125.0	5341.7	5844.7	5790.5	5440.1	5547.3	4826.5
62.5°	810.3	878.9	1208.3	2238.6	3225.8	3428.1	3910.1	3991.9	3905.7	3796.2	2927.3
65°	296.3	323.9	484.2	925.3	1483.6	1557.6	1811.9	1956.7	2076.1	1767.7	1088.9
67.5°	183.5	201.2	315.1	475.4	539.5	501.9	510.7	609.1	581.5	359.3	194.6
70°	136.0	150.3	246.5	329.4	217.8	168.0	113.9	121.6	109.4	96.2	95.1
72.5°	94.0	107.2	184.6	194.6	84.0	59.7	42.0	58.6	66.3	65.2	67.4
75°	61.9	71.9	116.1	76.3	21.0	16.6	14.4	31.0	39.8	39.8	40.9
77.5°	36.5	42.0	40.9	15.5	4.4	4.4	3.3	5.5	8.8	9.9	12.2
80°	4.4	3.3	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3
82.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3
85°	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	2.2	3.3	3.3
87.5°	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	2.2	3.3	3.3
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°	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3	2319.3
2.5°	2341.4	2333.7	2365.7	2388.9	2407.7	2416.6	2404.4	2403.3	2403.3	2379.0	2372.4
5°	2369.0	2372.4	2417.7	2437.6	2440.9	2429.8	2402.2	2383.4	2372.4	2346.9	2332.6
7.5°	2422.1	2433.2	2476.3	2473.0	2443.1	2392.3	2319.3	2262.9	2226.4	2186.6	2162.3
10°	2498.4	2519.4	2545.9	2499.5	2404.4	2275.1	2124.7	2017.5	1953.4	1908.1	1880.4
12.5°	2591.2	2612.3	2603.4	2494.0	2296.1	2065.0	1871.6	1716.8	1642.7	1601.8	1573.1
15°	2685.2	2698.5	2641.0	2427.6	2104.8	1794.2	1578.6	1425.0	1334.3	1301.2	1276.8
17.5°	2781.4	2778.1	2647.6	2297.2	1849.5	1489.1	1276.8	1171.8	1146.4	1140.9	1138.6
20°	2882.0	2852.1	2621.1	2110.4	1542.1	1187.3	1066.8	1073.4	1119.9	1142.0	1146.4
22.5°	2997.0	2921.8	2554.8	1857.2	1228.2	989.4	1001.6	1066.8	1129.8	1159.6	1164.1
25°	3119.7	2985.9	2444.2	1532.2	968.4	909.8	981.7	1056.8	1124.3	1160.8	1165.2
27.5°	3200.4	3001.4	2262.9	1205.0	831.3	878.9	955.1	1027.0	1096.6	1136.4	1142.0
30°	3287.7	2994.7	2016.4	928.6	784.9	852.3	918.7	983.9	1048.0	1092.2	1096.6
32.5°	3415.9	2990.3	1715.7	753.9	766.1	831.3	880.0	934.1	978.4	1003.8	1000.5
35°	3584.0	2984.8	1365.3	679.9	755.0	814.7	853.4	878.9	830.2	814.7	818.1
37.5°	3799.5	2998.1	1070.1	648.9	751.7	810.3	843.5	770.5	695.3	666.6	662.2
40°	4038.3	3032.3	815.8	636.8	762.8	821.4	805.9	685.4	592.5	536.2	524.0
42.5°	4278.2	3069.9	645.6	632.3	781.6	852.3	744.0	623.5	484.2	452.1	447.7
45°	4456.2	3063.3	558.3	624.6	798.2	870.0	727.4	535.1	432.2	417.9	419.0
47.5°	4545.7	2990.3	510.7	606.9	804.8	852.3	686.5	498.6	396.9	412.3	425.6
50°	4498.2	2801.3	466.5	572.6	790.4	829.1	621.3	470.9	379.2	443.3	473.1
52.5°	4440.7	2569.1	417.9	519.6	756.1	797.1	595.9	463.2	368.1	427.8	449.9
55°	4517.0	2422.1	338.3	437.8	688.7	721.9	576.0	462.1	342.7	332.7	329.4
57.5°	4409.8	2129.2	242.1	315.1	528.4	571.5	561.6	454.4	304.0	302.9	307.3
60°	3408.2	1298.9	165.8	200.1	323.9	364.8	509.6	434.5	262.0	241.0	242.1
62.5°	1936.8	552.7	113.9	123.8	165.8	196.8	389.1	394.7	242.1	229.9	242.1
65°	674.3	197.9	88.4	82.9	91.8	105.0	223.3	305.1	220.0	199.0	201.2
67.5°	139.3	98.4	78.5	68.5	68.5	68.5	113.9	190.1	181.3	158.1	160.3
70°	88.4	84.0	68.5	58.6	56.4	52.0	65.2	105.0	124.9	115.0	116.1
72.5°	65.2	64.1	54.2	47.5	42.0	37.6	40.9	52.0	64.1	66.3	67.4
75°	39.8	40.9	35.4	29.8	26.5	23.2	24.3	24.3	24.3	22.1	24.3
77.5°	12.2	13.3	11.1	8.8	7.7	7.7	7.7	6.6	5.5	3.3	3.3
80°	3.3	3.3	3.3	3.3	3.3	2.2	2.2	1.1	1.1	0.0	0.0
82.5°	3.3	3.3	3.3	3.3	2.2	2.2	1.1	1.1	0.0	0.0	0.0
85°	3.3	3.3	3.3	3.3	2.2	2.2	1.1	1.1	0.0	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	2.2	2.2	1.1	1.1	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)