

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: P642998

Luminaire Tested: GWS-SA6E-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-722-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

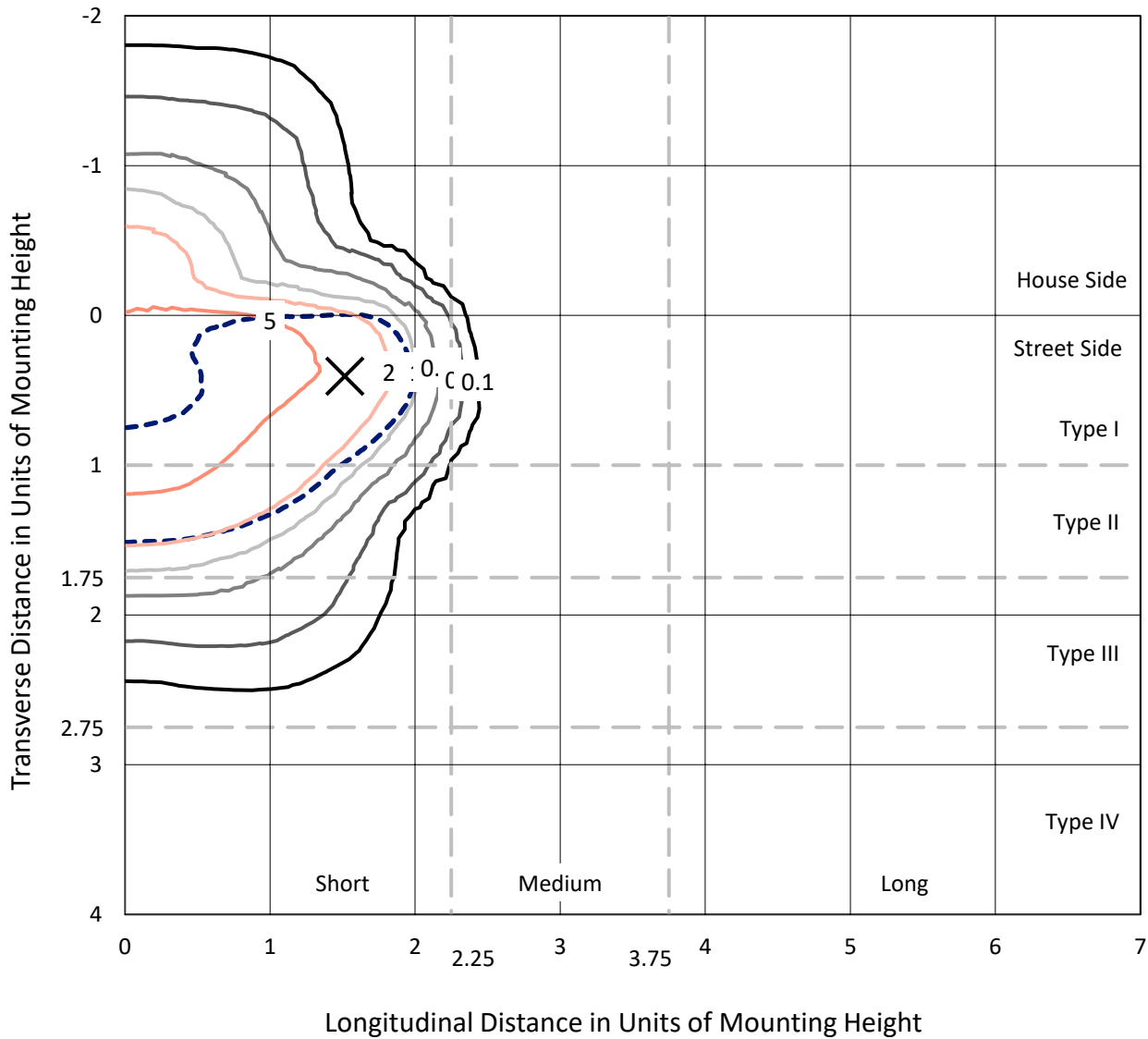
Lumens per Lamp: N/A  
Luminaire Lumens: 19586.2 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

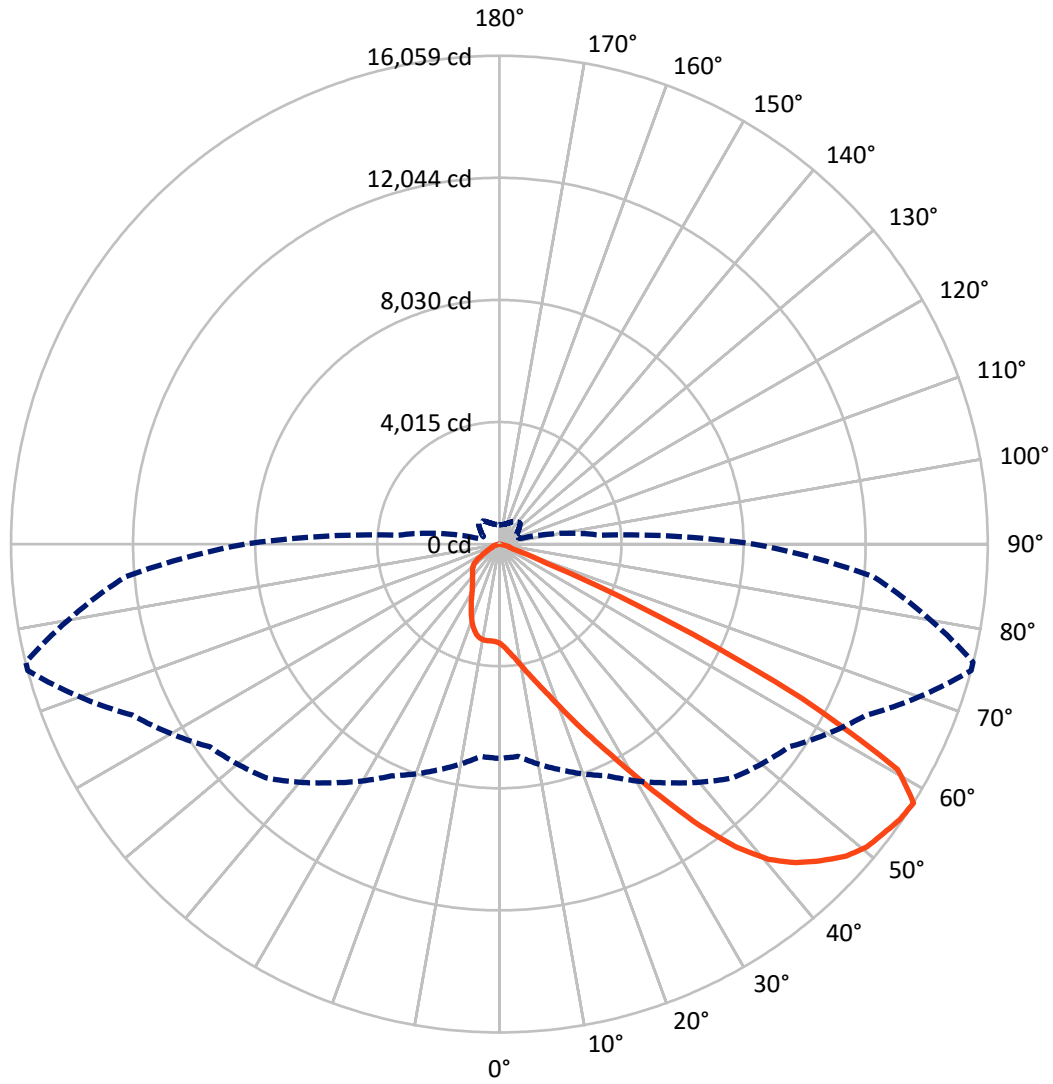
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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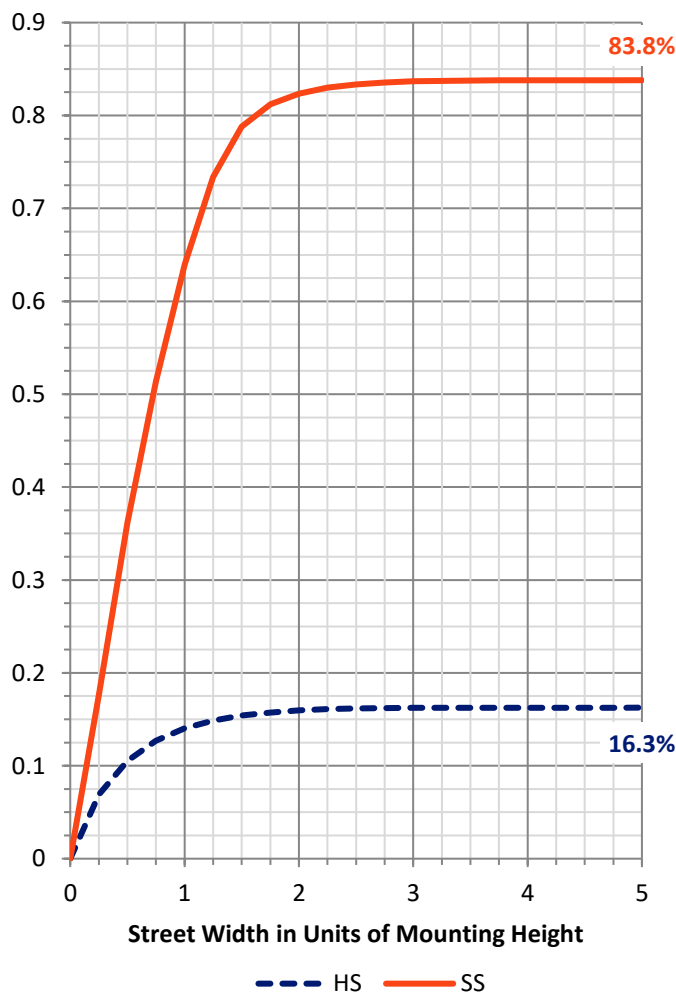
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3199.4	0.0	3199.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	16386.8	0.0	16386.8
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	19586.2	0.0	19586.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.4	1.7
10°-20°	1079.8	5.5
20°-30°	1977.4	10.1
30°-40°	3280.7	16.8
40°-50°	5010.5	25.6
50°-60°	5630.1	28.7
60°-70°	2076.6	10.6
70°-80°	198.5	1.0
80°-90°	0.2	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°	19586.2	100.0
0°-180°	19586.2	100.0

**Coefficient of Utilization**



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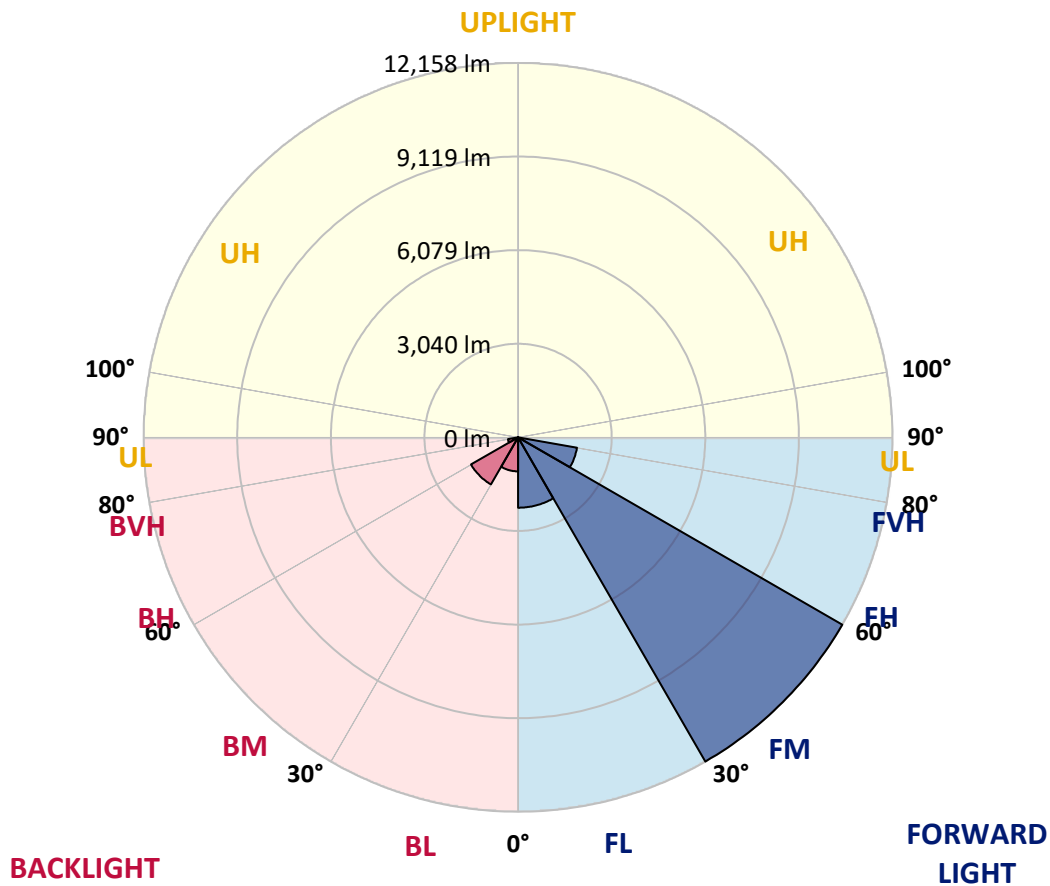
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2285.7	11.7			
FM (30°-60°)	12158.2	62.1			
FH (60°-80°)	1942.9	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1104.0	5.6	B3/2500		
BM (30°-60°)	1763.1	9.0	B2/2500		
BH (60°-80°)	332.2	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7
2.5°	3649.6	3687.5	3675.6	3652.0	3637.8	3588.2	3557.4	3467.6	3403.8	3396.7	3337.6
5°	4110.6	4103.5	4094.0	4065.7	4042.0	3964.0	3871.8	3720.5	3585.8	3569.3	3444.0
7.5°	4363.5	4368.2	4372.9	4368.2	4351.7	4292.6	4190.9	4013.7	3808.0	3793.8	3595.3
10°	4467.5	4476.9	4500.6	4545.5	4585.7	4581.0	4521.9	4339.8	4086.9	4063.3	3796.2
12.5°	4517.1	4528.9	4566.8	4651.9	4760.6	4845.7	4855.1	4692.0	4413.1	4375.3	4034.9
15°	4585.7	4597.5	4644.8	4755.9	4914.2	5082.1	5190.8	5086.8	4774.8	4734.6	4297.3
17.5°	4616.4	4633.0	4701.5	4848.1	5053.7	5311.4	5557.2	5547.7	5202.6	5171.9	4602.2
20°	4675.5	4687.3	4748.8	4907.1	5155.3	5526.5	5940.1	6089.0	5725.0	5680.1	4971.0
22.5°	4862.2	4867.0	4895.3	4994.6	5226.3	5682.5	6330.1	6720.1	6341.9	6282.9	5384.6
25°	5167.2	5164.8	5176.6	5193.2	5363.4	5840.8	6706.0	7431.6	7048.7	6984.9	5852.7
27.5°	5554.8	5554.8	5583.2	5535.9	5604.5	6037.0	7077.1	8249.5	7871.3	7781.5	6365.6
30°	6011.0	6008.7	6074.8	5999.2	6020.5	6346.7	7476.5	9140.6	8864.1	8753.0	6956.5
32.5°	6630.3	6616.1	6691.8	6587.8	6516.9	6814.7	7963.5	10071.9	10053.0	9882.8	7698.7
35°	7412.7	7389.1	7412.7	7311.1	7183.4	7469.5	8601.7	11000.9	11372.0	11192.4	8582.8
37.5°	8190.4	8266.0	8292.0	8117.1	8013.1	8299.1	9369.9	11832.9	12631.9	12445.2	9502.3
40°	9107.5	9083.9	9173.7	8977.5	8911.3	9228.1	10121.6	12452.2	13629.4	13452.1	10320.1
42.5°	9783.6	9826.1	9937.2	9828.5	9776.5	10074.3	10752.7	12813.9	14322.0	14147.1	10904.0
45°	10594.3	10625.1	10667.6	10577.8	10523.4	10816.5	11208.9	12972.3	14849.1	14660.0	11296.4
47.5°	11471.3	11494.9	11494.9	11310.6	11135.6	11256.2	11513.8	13062.1	15333.7	15151.7	11587.1
50°	12100.0	12111.9	12215.9	12085.9	11705.3	11518.6	11653.3	13149.6	15655.1	15484.9	11681.7
52.5°	11542.2	11528.0	11870.8	12140.2	12241.9	11870.8	11894.4	13277.2	15811.1	15664.6	11757.3
55°	9719.7	9696.1	10178.3	10833.1	11728.9	12204.1	12185.1	13352.8	15983.7	15893.9	12031.5
57.5°	7046.3	7006.2	7677.5	8405.5	9580.3	10868.5	11624.9	13310.3	16059.3	16052.2	12350.6
60°	4235.8	4202.8	4836.2	5602.1	6509.8	7805.1	9060.3	11922.8	15047.6	15061.8	11520.9
62.5°	2607.2	2637.9	3210.0	3600.0	3938.0	4328.0	5053.7	8020.2	11147.5	11239.6	8095.9
65°	1753.9	1777.5	2307.0	2798.7	2798.7	2288.1	1964.3	3834.0	5947.2	5791.2	3829.3
67.5°	1177.1	1203.1	1621.5	2195.9	2278.7	1595.5	796.6	1144.1	1657.0	1607.4	947.9
70°	692.6	720.9	1080.2	1505.7	1659.4	1111.0	531.8	484.6	470.4	456.2	368.7
72.5°	309.7	321.5	550.8	765.9	699.7	468.0	375.8	387.7	366.4	359.3	300.2
75°	94.6	99.3	141.8	165.5	167.8	167.8	226.9	304.9	288.4	290.7	231.6
77.5°	23.6	23.6	37.8	35.5	18.9	16.5	42.5	68.5	70.9	63.8	47.3
80°	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7	3266.7
2.5°	3311.6	3250.2	3210.0	3153.2	3113.1	3070.5	3032.7	3002.0	2985.4	2980.7	2983.1
5°	3387.3	3290.3	3195.8	3087.1	3011.4	2940.5	2883.8	2838.9	2817.6	2810.5	2810.5
7.5°	3503.1	3368.3	3200.5	3030.3	2902.7	2791.6	2725.4	2675.8	2656.9	2652.1	2637.9
10°	3654.4	3470.0	3193.4	2928.7	2749.0	2633.2	2585.9	2571.8	2578.9	2581.2	2578.9
12.5°	3836.4	3576.4	3148.5	2779.8	2585.9	2515.0	2519.8	2557.6	2600.1	2621.4	2626.1
15°	4030.2	3673.3	3046.9	2602.5	2446.5	2444.1	2512.7	2600.1	2682.9	2718.3	2727.8
17.5°	4247.7	3751.3	2890.9	2413.4	2325.9	2394.5	2517.4	2652.1	2763.2	2822.3	2834.1
20°	4486.4	3815.1	2692.3	2236.1	2219.6	2342.5	2512.7	2678.1	2815.2	2881.4	2893.2
22.5°	4734.6	3860.0	2463.0	2073.0	2122.6	2283.4	2467.8	2628.5	2758.5	2834.1	2843.6
25°	5018.2	3864.7	2229.0	1935.9	2032.8	2203.0	2359.0	2491.4	2600.1	2666.3	2673.4
27.5°	5266.4	3808.0	2021.0	1824.8	1950.1	2103.7	2207.7	2281.0	2356.7	2394.5	2396.8
30°	5552.5	3708.7	1824.8	1735.0	1865.0	1980.8	2032.8	2049.4	2056.5	2063.6	2054.1
32.5°	5892.8	3588.2	1678.3	1647.5	1768.1	1846.1	1860.3	1827.2	1787.0	1730.3	1716.1
35°	6311.2	3479.4	1557.7	1562.4	1661.7	1709.0	1697.2	1626.3	1548.3	1479.7	1467.9
37.5°	6765.1	3387.3	1465.5	1479.7	1545.9	1579.0	1543.5	1465.5	1430.1	1371.0	1373.3
40°	7166.9	3311.6	1382.8	1397.0	1427.7	1458.4	1401.7	1349.7	1415.9	1411.2	1415.9
42.5°	7452.9	3247.8	1311.9	1304.8	1326.1	1347.3	1304.8	1278.8	1389.9	1359.2	1375.7
45°	7620.7	3188.7	1252.8	1210.2	1243.3	1281.2	1252.8	1219.7	1257.5	1115.7	1103.9
47.5°	7734.2	3155.6	1200.8	1118.1	1177.1	1243.3	1184.2	1103.9	1049.5	926.6	917.1
50°	7746.0	3139.1	1139.3	1023.5	1099.1	1170.1	1101.5	990.4	912.4	858.0	851.0
52.5°	7807.5	3172.2	1054.2	903.0	985.7	1099.1	1051.9	940.8	834.4	787.1	777.7
55°	8081.7	3311.6	912.4	737.5	858.0	1044.8	1011.7	839.1	737.5	709.1	702.0
57.5°	8365.3	3340.0	718.6	583.8	746.9	966.8	924.2	772.9	673.7	640.6	633.5
60°	7649.1	2751.4	538.9	482.2	659.5	893.5	855.7	732.8	616.9	576.8	569.7
62.5°	5025.3	1486.8	427.8	408.9	555.5	756.4	780.0	661.9	550.8	508.2	505.8
65°	2316.5	690.2	328.6	323.8	434.9	602.8	671.3	579.1	465.7	427.8	427.8
67.5°	631.1	342.7	257.6	238.7	295.5	404.2	489.3	432.6	330.9	286.0	283.7
70°	314.4	276.6	231.6	205.6	212.7	250.6	288.4	241.1	167.8	137.1	134.7
72.5°	257.6	226.9	196.2	174.9	160.7	153.6	148.9	120.6	78.0	59.1	56.7
75°	191.5	163.1	139.5	113.5	96.9	89.8	80.4	59.1	33.1	18.9	16.5
77.5°	42.5	40.2	37.8	28.4	26.0	21.3	16.5	11.8	4.7	0.0	0.0
80°	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)