

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: P640468

Luminaire Tested: GWS-SA5D-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640468  
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-SA5D-830-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

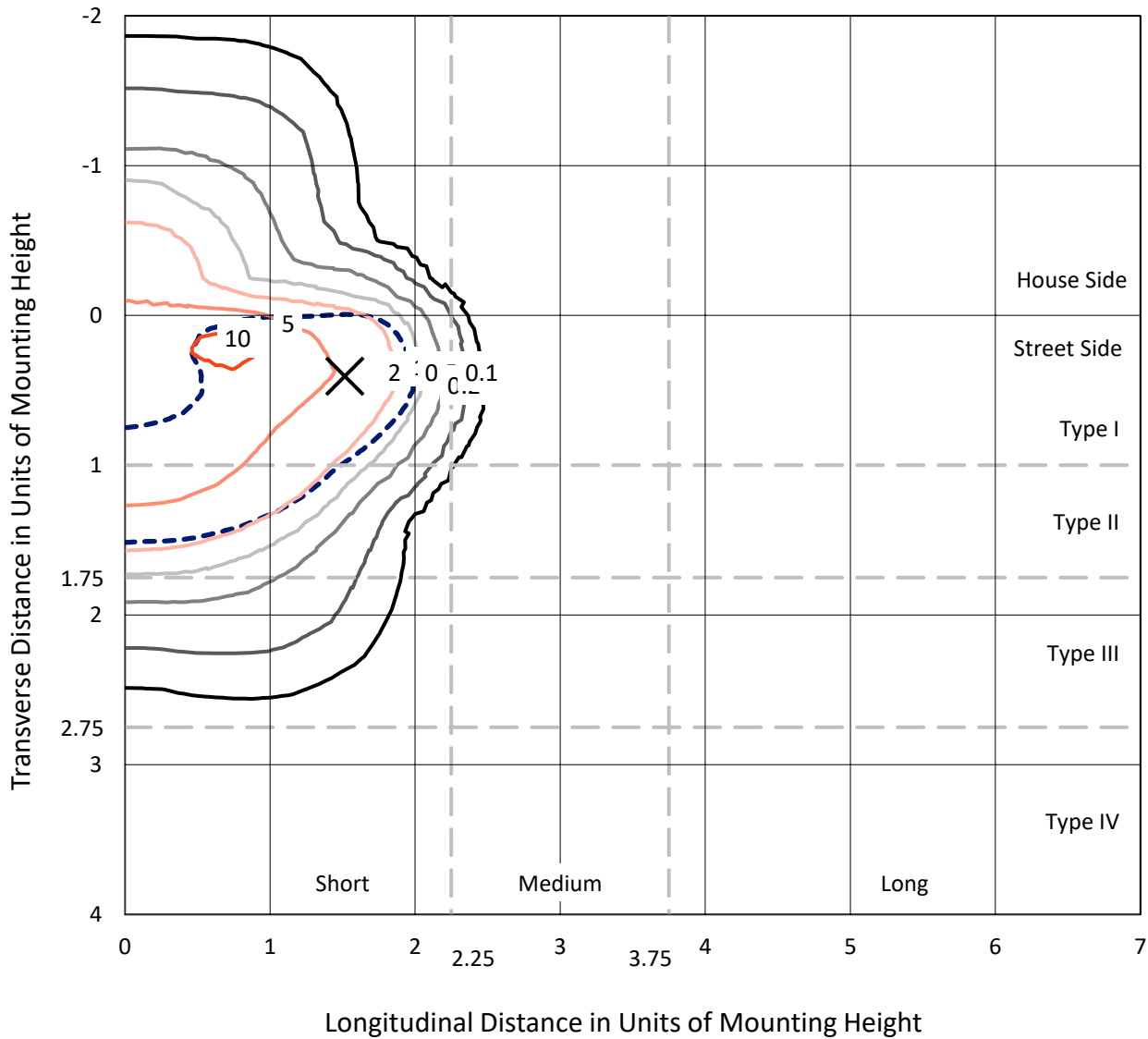
Lumens per Lamp: N/A  
Luminaire Lumens: 14175.3 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

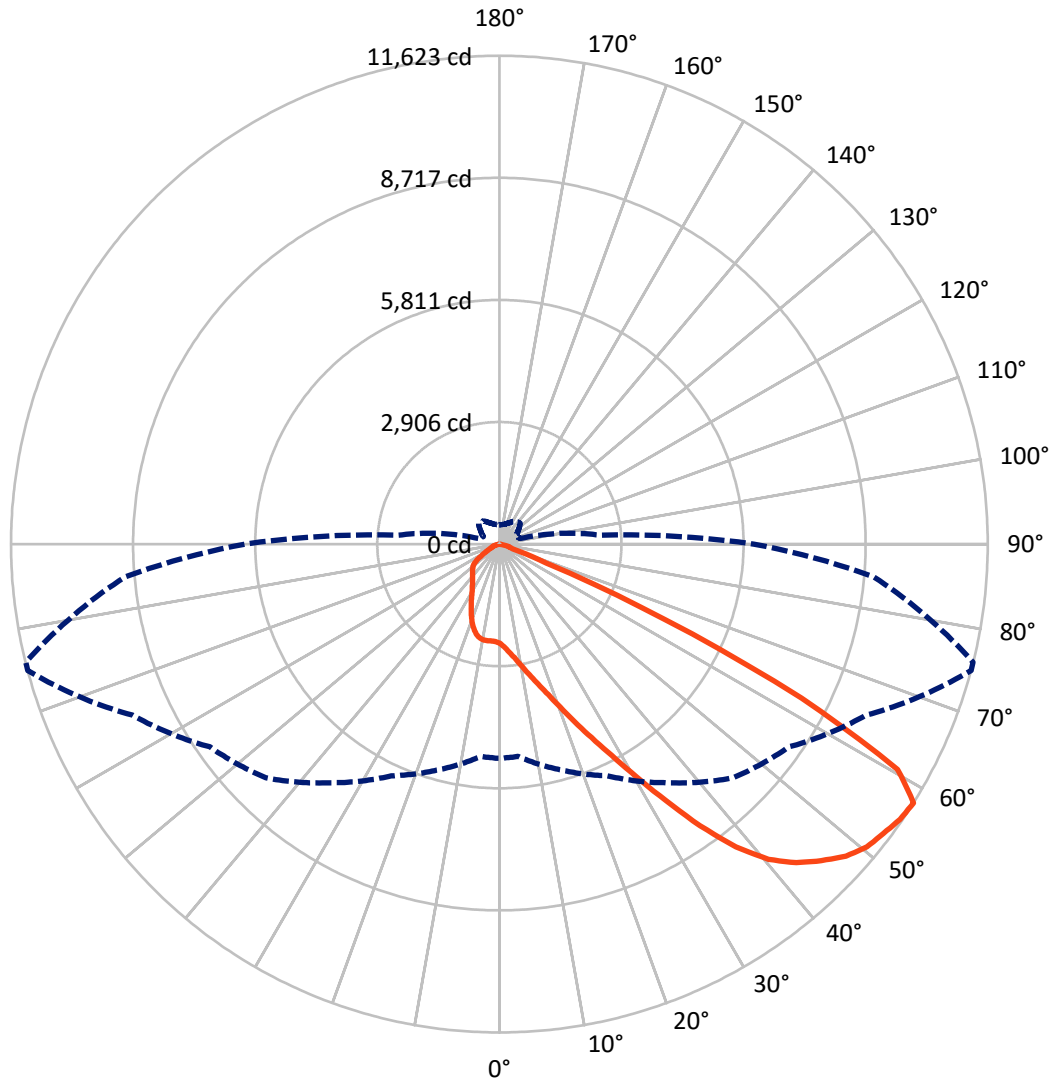
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11 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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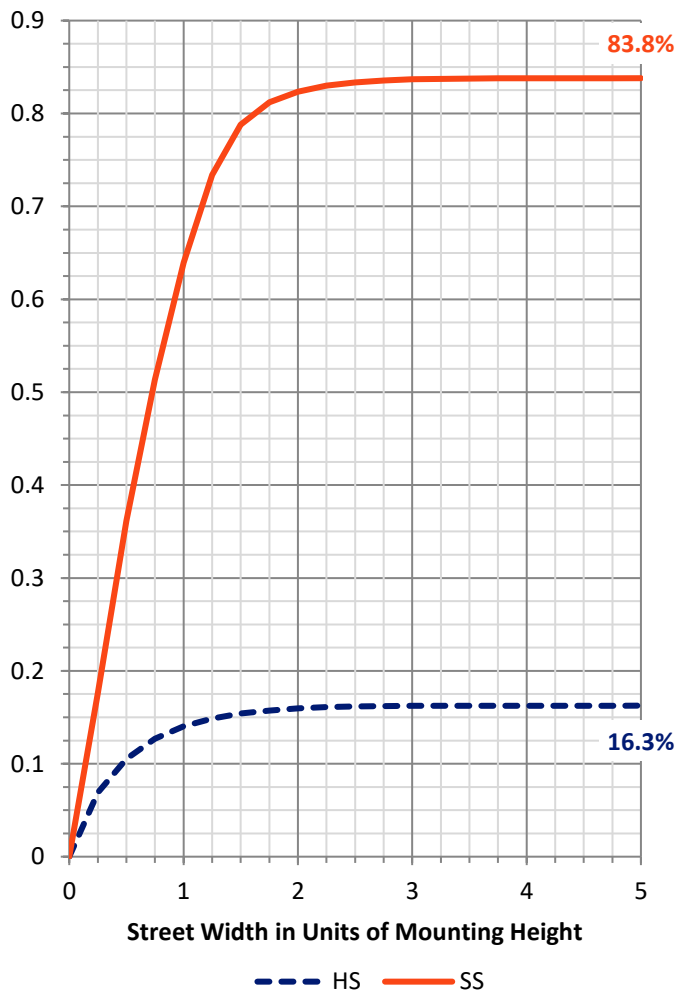
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2315.5	0.0	2315.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	11859.8	0.0	11859.8
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	14175.3	0.0	14175.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.6	1.7
10°-20°	781.5	5.5
20°-30°	1431.1	10.1
30°-40°	2374.4	16.8
40°-50°	3626.3	25.6
50°-60°	4074.7	28.7
60°-70°	1502.9	10.6
70°-80°	143.7	1.0
80°-90°	0.1	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°	14175.3	100.0
0°-180°	14175.3	100.0

**Coefficient of Utilization**



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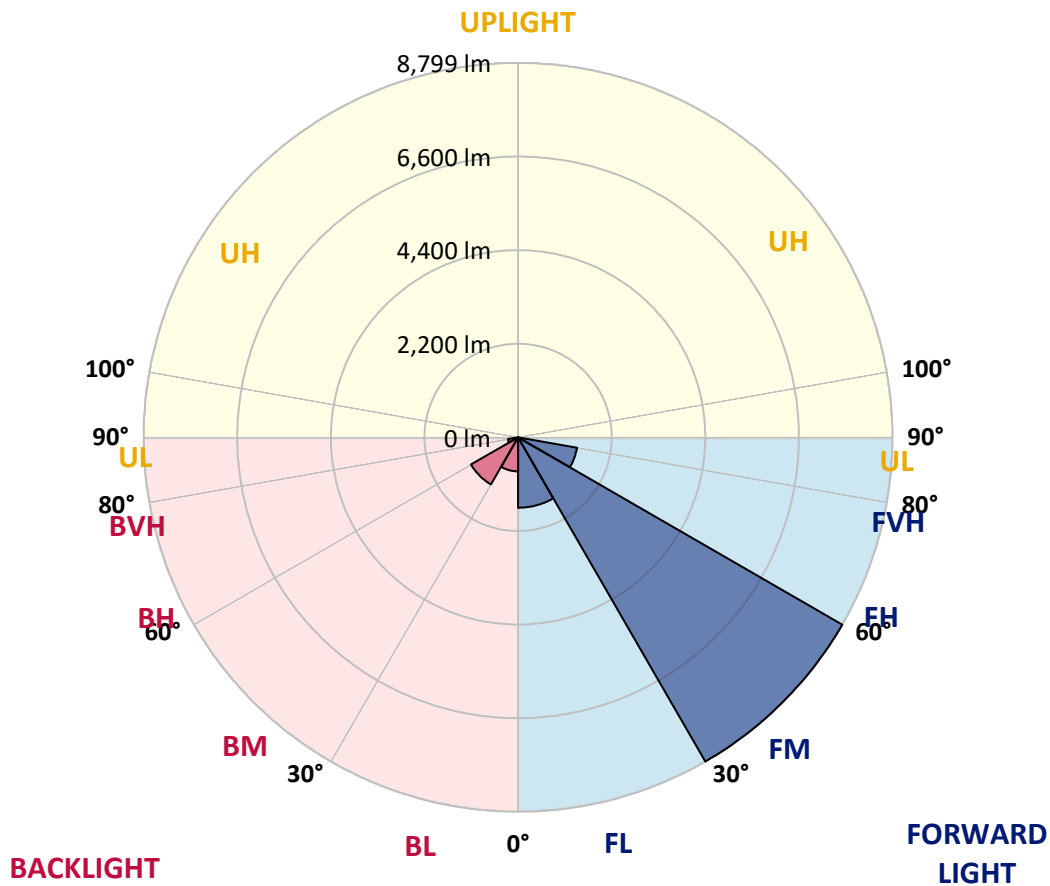
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.2	11.7			
FM (30°-60°)	8799.4	62.1			
FH (60°-80°)	1406.1	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	799.0	5.6	B2/1000		
BM (30°-60°)	1276.0	9.0	B2/2500		
BH (60°-80°)	240.5	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2
2.5°	2641.4	2668.8	2660.2	2643.1	2632.8	2596.9	2574.7	2509.7	2463.5	2458.3	2415.6
5°	2975.0	2969.8	2963.0	2942.5	2925.4	2868.9	2802.2	2692.7	2595.2	2583.2	2492.5
7.5°	3158.0	3161.4	3164.9	3161.4	3149.5	3106.7	3033.1	2904.8	2756.0	2745.7	2602.0
10°	3233.3	3240.1	3257.2	3289.8	3318.8	3315.4	3272.6	3140.9	2957.9	2940.8	2747.4
12.5°	3269.2	3277.8	3305.1	3366.7	3445.4	3507.0	3513.9	3395.8	3194.0	3166.6	2920.2
15°	3318.8	3327.4	3361.6	3442.0	3556.6	3678.1	3756.8	3681.5	3455.7	3426.6	3110.1
17.5°	3341.1	3353.1	3402.7	3508.7	3657.6	3844.0	4021.9	4015.1	3765.3	3743.1	3330.8
20°	3383.8	3392.4	3436.9	3551.5	3731.1	3999.7	4299.1	4406.9	4143.4	4110.9	3597.7
22.5°	3519.0	3522.4	3542.9	3614.8	3782.4	4112.6	4581.4	4863.6	4589.9	4547.1	3897.1
25°	3739.7	3738.0	3746.5	3758.5	3881.7	4227.2	4853.4	5378.6	5101.4	5055.2	4235.8
27.5°	4020.2	4020.2	4040.8	4006.6	4056.2	4369.2	5122.0	5970.5	5696.8	5631.8	4607.0
30°	4350.4	4348.7	4396.6	4341.9	4357.3	4593.3	5411.1	6615.4	6415.3	6334.9	5034.7
32.5°	4798.6	4788.4	4843.1	4767.8	4716.5	4932.1	5763.5	7289.5	7275.8	7152.6	5571.9
35°	5364.9	5347.8	5364.9	5291.3	5198.9	5405.9	6225.4	7961.8	8230.4	8100.4	6211.7
37.5°	5927.7	5982.5	6001.3	5874.7	5799.4	6006.4	6781.4	8564.0	9142.2	9007.0	6877.2
40°	6591.5	6574.4	6639.4	6497.4	6449.5	6678.7	7325.4	9012.2	9864.1	9735.8	7469.1
42.5°	7080.8	7111.5	7192.0	7113.3	7075.6	7291.2	7782.2	9273.9	10365.4	10238.8	7891.6
45°	7667.5	7689.8	7720.6	7655.6	7616.2	7828.3	8112.3	9388.5	10746.9	10610.0	8175.6
47.5°	8302.2	8319.3	8319.3	8185.9	8059.3	8146.5	8333.0	9453.5	11097.6	10965.8	8386.0
50°	8757.3	8765.8	8841.1	8747.0	8471.6	8336.4	8433.9	9516.8	11330.2	11207.1	8454.5
52.5°	8353.5	8343.3	8591.3	8786.4	8859.9	8591.3	8608.4	9609.2	11443.1	11337.1	8509.2
55°	7034.6	7017.5	7366.4	7840.3	8488.7	8832.6	8818.9	9664.0	11568.0	11503.0	8707.7
57.5°	5099.7	5070.6	5556.5	6083.4	6933.6	7866.0	8413.4	9633.2	11622.8	11617.6	8938.6
60°	3065.6	3041.7	3500.2	4054.5	4711.4	5648.9	6557.3	8629.0	10890.6	10900.8	8338.1
62.5°	1886.9	1909.2	2323.2	2605.5	2850.1	3132.4	3657.6	5804.5	8067.8	8134.6	5859.3
65°	1269.4	1286.5	1669.7	2025.5	2025.5	1656.0	1421.6	2774.8	4304.2	4191.3	2771.4
67.5°	851.9	870.8	1173.6	1589.3	1649.2	1154.7	576.5	828.0	1199.2	1163.3	686.0
70°	501.2	521.8	781.8	1089.7	1200.9	804.0	384.9	350.7	340.4	330.2	266.9
72.5°	224.1	232.7	398.6	554.3	506.4	338.7	272.0	280.6	265.2	260.0	217.3
75°	68.4	71.9	102.6	119.8	121.5	121.5	164.2	220.7	208.7	210.4	167.7
77.5°	17.1	17.1	27.4	25.7	13.7	12.0	30.8	49.6	51.3	46.2	34.2
80°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
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°	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2	2364.2
2.5°	2396.7	2352.3	2323.2	2282.1	2253.0	2222.3	2194.9	2172.6	2160.7	2157.2	2159.0
5°	2451.5	2381.4	2312.9	2234.2	2179.5	2128.2	2087.1	2054.6	2039.2	2034.1	2034.1
7.5°	2535.3	2437.8	2316.3	2193.2	2100.8	2020.4	1972.5	1936.6	1922.9	1919.5	1909.2
10°	2644.8	2511.4	2311.2	2119.6	1989.6	1905.8	1871.5	1861.3	1866.4	1868.1	1866.4
12.5°	2776.5	2588.3	2278.7	2011.8	1871.5	1820.2	1823.6	1851.0	1881.8	1897.2	1900.6
15°	2916.8	2658.5	2205.1	1883.5	1770.6	1768.9	1818.5	1881.8	1941.7	1967.4	1974.2
17.5°	3074.2	2714.9	2092.2	1746.7	1683.4	1733.0	1821.9	1919.5	1999.9	2042.6	2051.2
20°	3247.0	2761.1	1948.5	1618.4	1606.4	1695.3	1818.5	1938.3	2037.5	2085.4	2093.9
22.5°	3426.6	2793.6	1782.6	1500.3	1536.2	1652.6	1786.0	1902.3	1996.4	2051.2	2058.0
25°	3631.9	2797.1	1613.2	1401.1	1471.2	1594.4	1707.3	1803.1	1881.8	1929.7	1934.8
27.5°	3811.5	2756.0	1462.7	1320.7	1411.4	1522.6	1597.8	1650.9	1705.6	1733.0	1734.7
30°	4018.5	2684.2	1320.7	1255.7	1349.8	1433.6	1471.2	1483.2	1488.3	1493.5	1486.6
32.5°	4264.9	2596.9	1214.6	1192.4	1279.6	1336.1	1346.4	1322.4	1293.3	1252.3	1242.0
35°	4567.7	2518.2	1127.4	1130.8	1202.7	1236.9	1228.3	1177.0	1120.5	1070.9	1062.4
37.5°	4896.1	2451.5	1060.7	1070.9	1118.8	1142.8	1117.1	1060.7	1035.0	992.2	993.9
40°	5187.0	2396.7	1000.8	1011.0	1033.3	1055.5	1014.5	976.8	1024.7	1021.3	1024.7
42.5°	5394.0	2350.6	949.5	944.3	959.7	975.1	944.3	925.5	1005.9	983.7	995.7
45°	5515.4	2307.8	906.7	875.9	899.8	927.2	906.7	882.7	910.1	807.5	798.9
47.5°	5597.5	2283.8	869.1	809.2	851.9	899.8	857.1	798.9	759.6	670.6	663.8
50°	5606.1	2271.9	824.6	740.8	795.5	846.8	797.2	716.8	660.3	621.0	615.9
52.5°	5650.6	2295.8	763.0	653.5	713.4	795.5	761.3	680.9	603.9	569.7	562.8
55°	5849.0	2396.7	660.3	533.8	621.0	756.1	732.2	607.3	533.8	513.2	508.1
57.5°	6054.3	2417.3	520.1	422.6	540.6	699.7	668.9	559.4	487.6	463.6	458.5
60°	5536.0	1991.3	390.0	349.0	477.3	646.7	619.3	530.3	446.5	417.4	412.3
62.5°	3637.0	1076.1	309.6	296.0	402.0	547.4	564.5	479.0	398.6	367.8	366.1
65°	1676.5	499.5	237.8	234.4	314.8	436.2	485.9	419.1	337.0	309.6	309.6
67.5°	456.8	248.1	186.5	172.8	213.8	292.5	354.1	313.1	239.5	207.0	205.3
70°	227.5	200.2	167.7	148.8	154.0	181.3	208.7	174.5	121.5	99.2	97.5
72.5°	186.5	164.2	142.0	126.6	116.3	111.2	107.8	87.2	56.5	42.8	41.1
75°	138.6	118.0	100.9	82.1	70.1	65.0	58.2	42.8	24.0	13.7	12.0
77.5°	30.8	29.1	27.4	20.5	18.8	15.4	12.0	8.6	3.4	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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)