

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: P642672

Luminaire Tested: GWS-SA6D-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23683.8 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

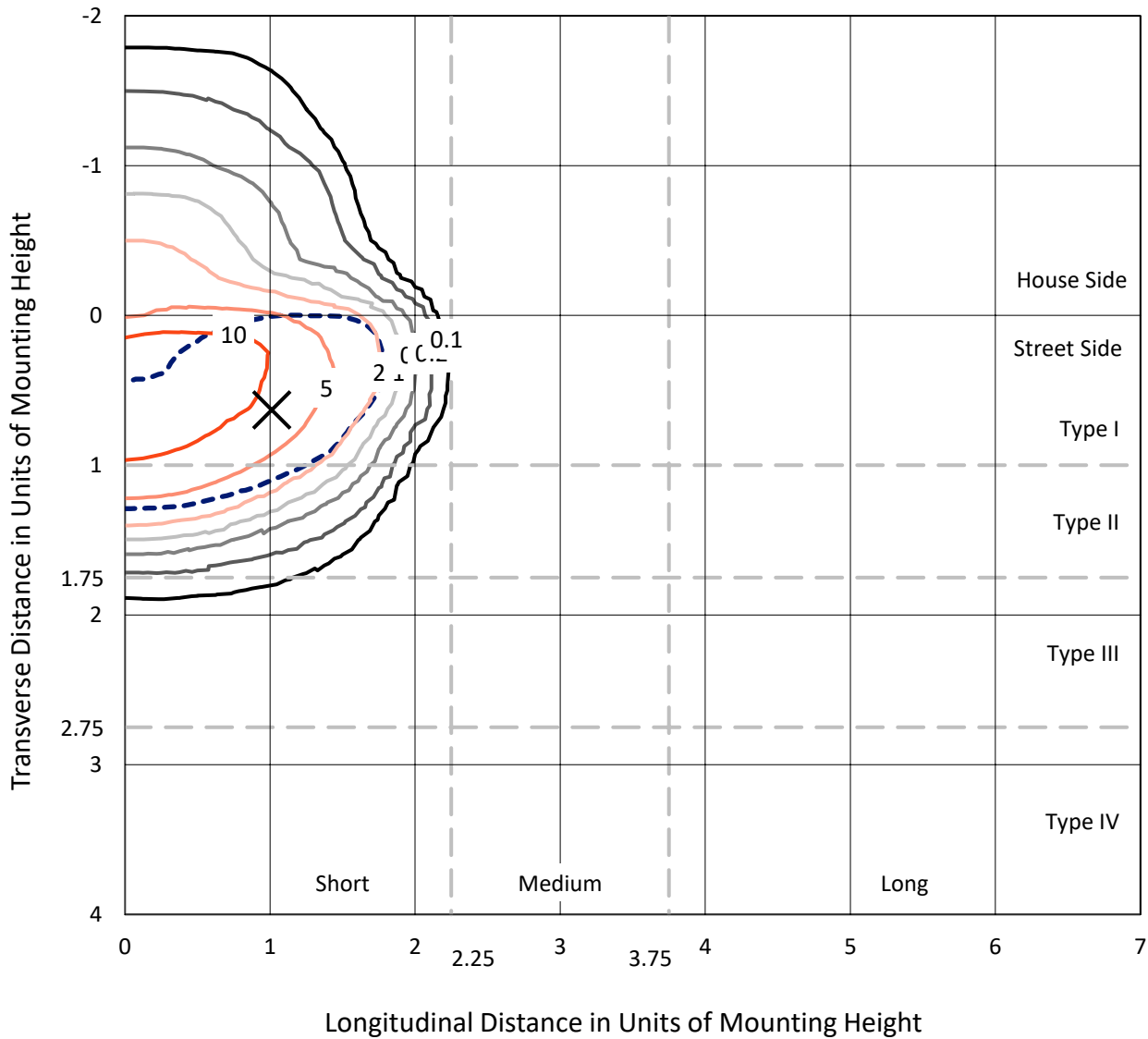
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

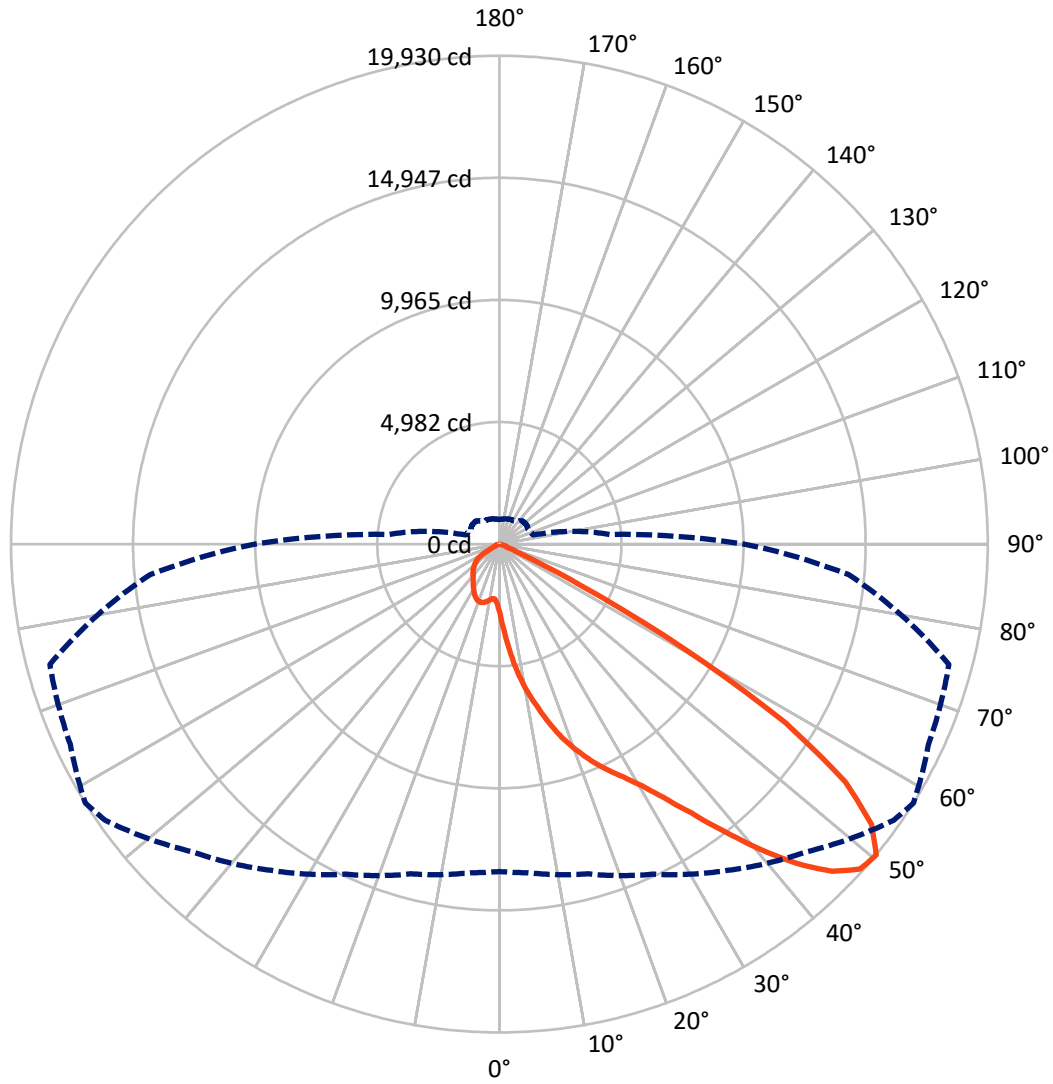
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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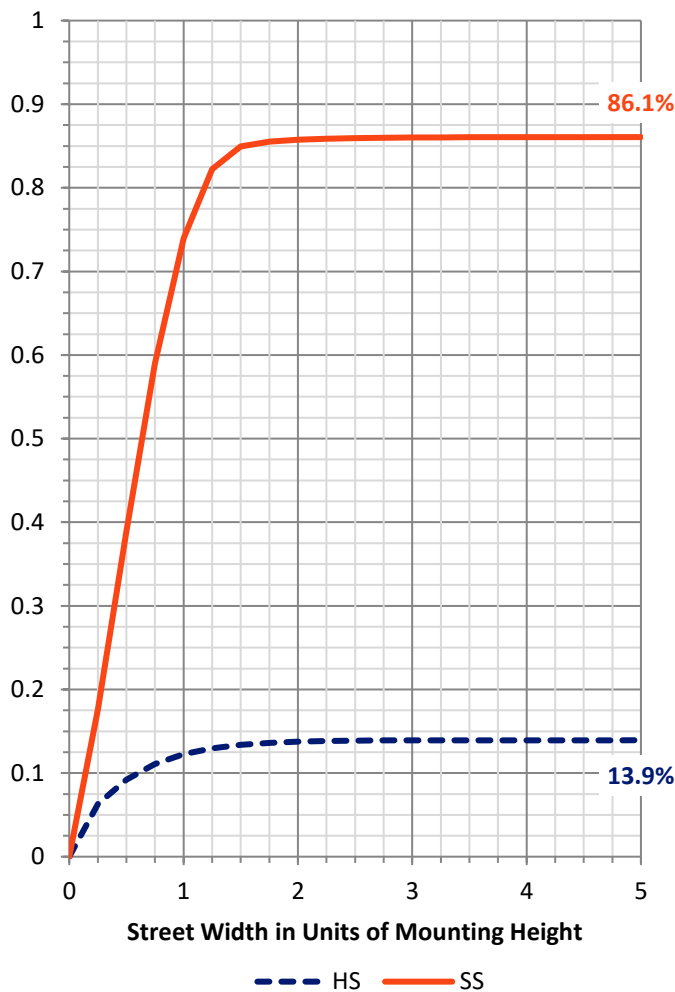
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3317.2	0.0	3317.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20366.6	0.0	20366.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	23683.8	0.0	23683.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	1.5
10°-20°	1387.4	5.9
20°-30°	2807.5	11.9
30°-40°	4966.7	21.0
40°-50°	7240.4	30.6
50°-60°	5803.4	24.5
60°-70°	1045.5	4.4
70°-80°	82.4	0.3
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°	23683.8	100.0
0°-180°	23683.8	100.0

Coefficient of Utilization



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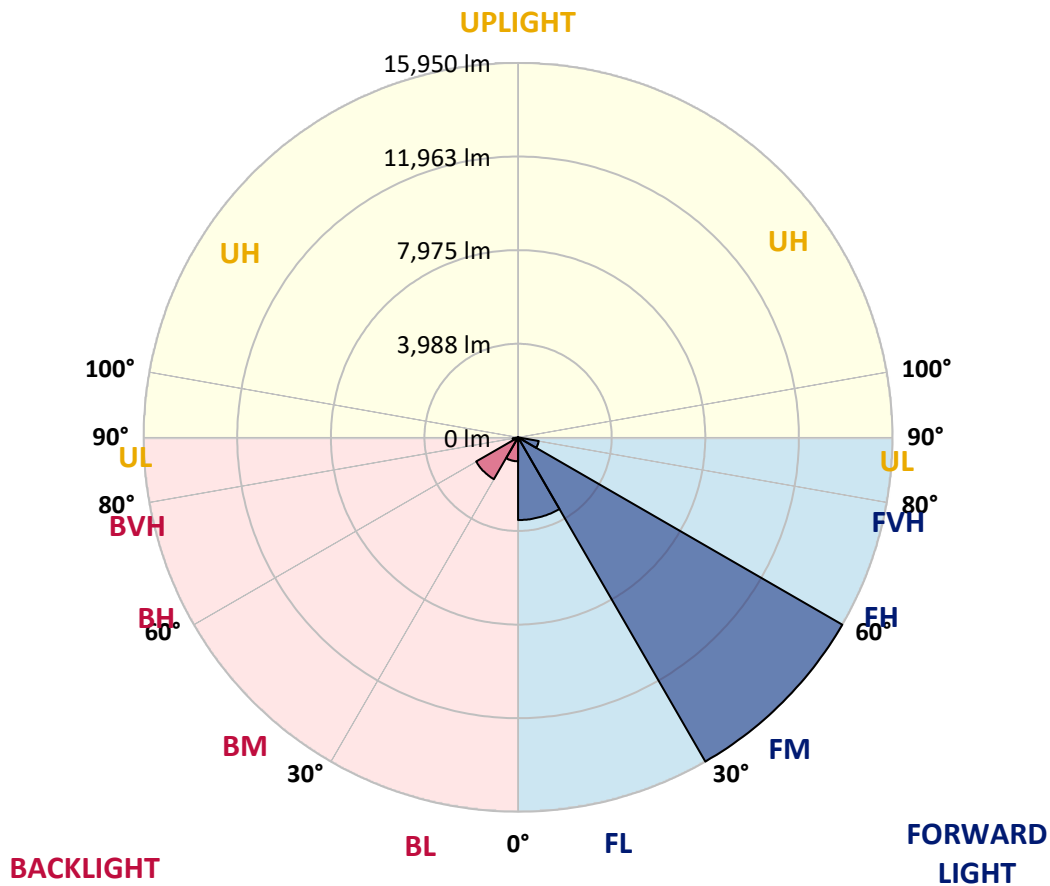
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3524.1	14.9			
FM (30°-60°)	15950.3	67.3			
FH (60°-80°)	892.2	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1021.2	4.3	B3/2500		
BM (30°-60°)	2060.2	8.7	B2/2500		
BH (60°-80°)	235.8	1.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0
2.5°	4186.5	4120.6	4082.7	4052.3	3918.0	3705.3	3566.0	3492.5	3371.0	3165.8	2988.5
5°	5463.0	5414.8	5326.2	5265.4	5093.2	4791.8	4480.3	4356.2	4080.1	3616.6	3201.3
7.5°	6308.9	6273.4	6240.5	6159.4	5997.4	5723.8	5379.4	5250.2	4824.7	4166.2	3485.0
10°	6959.8	6931.9	6893.9	6891.4	6764.8	6519.1	6182.2	6048.0	5587.1	4763.9	3819.3
12.5°	7532.2	7509.4	7501.8	7572.7	7491.6	7309.3	6944.6	6777.4	6288.6	5374.3	4189.0
15°	7924.7	7919.7	7952.6	8091.9	8137.5	8053.9	7747.4	7567.6	7005.4	5987.2	4596.8
17.5°	8104.5	8119.7	8183.0	8423.7	8626.3	8697.2	8461.6	8309.7	7717.0	6607.7	5032.4
20°	8411.0	8405.9	8443.9	8671.9	8920.1	9173.3	9102.4	8973.2	8436.3	7263.7	5516.1
22.5°	9274.6	9201.2	9120.1	9155.6	9244.2	9540.6	9672.3	9606.4	9178.4	7937.4	6015.1
25°	10601.7	10525.8	10264.9	10011.6	9844.5	9978.7	10158.5	10191.5	9915.4	8628.8	6536.8
27.5°	12009.9	11941.5	11647.7	11267.8	10789.2	10556.2	10690.4	10756.2	10639.7	9451.9	7091.5
30°	13329.4	13238.3	12916.6	12445.5	11890.9	11533.8	11381.8	11427.4	11495.8	10427.0	7742.4
32.5°	14474.2	14405.8	14020.8	13524.4	12990.0	12617.7	12263.2	12339.2	12506.3	11619.9	8575.6
35°	15444.2	15408.7	15001.0	14507.1	13942.3	13752.4	13448.5	13463.7	13630.8	13061.0	9591.2
37.5°	16287.6	16226.8	15857.0	15398.6	14950.3	14919.9	14836.4	14844.0	14930.1	14740.1	10758.8
40°	16819.4	16763.7	16500.3	16216.7	15897.6	15902.6	16335.7	16368.6	16269.9	16388.9	11992.2
42.5°	17019.5	16979.0	16837.2	16839.7	16806.8	16956.2	17769.2	17830.0	17475.4	17683.1	13045.8
45°	16672.5	16654.8	16665.0	17029.7	17424.8	17885.7	18941.8	19048.2	18546.7	18541.7	13868.9
47.5°	15553.1	15517.7	15814.0	16434.5	17348.8	18245.3	19651.0	19815.6	19296.4	19033.0	14385.5
50°	13359.8	13461.1	13929.7	14861.7	16252.1	17751.5	19643.4	19929.6	19324.3	18989.9	14299.4
52.5°	9677.3	9657.1	10682.8	11964.3	13656.1	16171.1	18599.9	19017.8	18648.0	18567.0	14107.0
55°	5265.4	5450.3	6141.7	7838.6	9950.8	13180.0	16216.7	17128.4	17556.4	18412.5	14453.9
57.5°	1935.0	2016.0	2449.1	3649.6	5267.9	8195.7	12387.3	13762.5	15084.6	17981.9	14395.7
60°	780.1	795.3	967.5	1342.3	2213.6	4171.3	7430.8	8651.6	9897.7	13765.0	11047.5
62.5°	567.3	587.6	656.0	785.1	1119.4	1823.5	3203.8	3725.6	4072.5	6817.9	5442.7
65°	458.4	473.6	529.3	587.6	739.5	980.1	1033.3	995.3	990.3	1762.7	1248.6
67.5°	379.9	395.1	435.6	476.1	531.9	488.8	354.6	372.3	303.9	301.4	245.7
70°	278.6	296.3	336.8	379.9	319.1	131.7	205.1	303.9	230.5	192.5	187.4
72.5°	210.2	222.9	260.9	248.2	93.7	50.7	136.8	220.3	177.3	141.8	139.3
75°	157.0	164.6	131.7	40.5	10.1	12.7	50.7	91.2	98.8	81.0	81.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.6	10.1	12.7	15.2
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0	2829.0
2.5°	2887.2	2780.9	2628.9	2502.3	2406.0	2312.3	2241.4	2170.5	2168.0	2132.5	2124.9
5°	3008.8	2816.3	2537.7	2337.7	2216.1	2142.6	2092.0	2066.7	2054.0	2041.3	2036.3
7.5°	3183.6	2907.5	2522.5	2309.8	2208.5	2160.4	2124.9	2109.7	2102.1	2092.0	2089.5
10°	3398.8	3039.2	2578.3	2363.0	2274.3	2228.7	2190.8	2168.0	2155.3	2137.6	2132.5
12.5°	3657.2	3201.3	2666.9	2451.6	2357.9	2297.1	2246.5	2213.6	2195.8	2173.0	2168.0
15°	3935.8	3376.0	2765.7	2532.7	2421.2	2342.7	2279.4	2228.7	2195.8	2168.0	2160.4
17.5°	4224.5	3553.3	2854.3	2588.4	2451.6	2357.9	2266.7	2198.4	2157.8	2122.4	2112.2
20°	4548.7	3735.7	2912.6	2598.5	2441.5	2317.4	2211.0	2124.9	2084.4	2036.3	2026.1
22.5°	4888.0	3905.4	2937.9	2575.7	2385.8	2241.4	2127.4	2038.8	1980.5	1929.9	1914.7
25°	5217.3	4057.3	2925.2	2512.4	2302.2	2135.0	2018.5	1927.4	1864.0	1813.4	1800.7
27.5°	5566.8	4184.0	2879.6	2418.7	2188.2	2018.5	1907.1	1828.6	1770.3	1714.6	1702.0
30°	5959.4	4300.5	2806.2	2304.7	2054.0	1899.5	1813.4	1760.2	1696.9	1638.6	1620.9
32.5°	6433.0	4404.3	2699.8	2168.0	1935.0	1795.7	1747.5	1707.0	1633.6	1572.8	1560.1
35°	6975.0	4490.4	2565.6	2026.1	1818.5	1729.8	1719.7	1666.5	1570.3	1499.3	1484.1
37.5°	7603.1	4574.0	2406.0	1886.8	1732.3	1699.4	1702.0	1610.8	1494.3	1408.2	1398.0
40°	8279.3	4657.6	2228.7	1765.3	1653.8	1681.7	1658.9	1529.7	1339.8	1256.2	1246.1
42.5°	8983.4	4748.8	2048.9	1651.3	1588.0	1613.3	1580.4	1367.6	1230.9	1187.8	1182.8
45°	9619.1	4857.7	1853.9	1537.3	1522.1	1514.5	1458.8	1238.5	1180.2	1149.8	1147.3
47.5°	10077.5	4839.9	1646.2	1428.4	1451.2	1425.9	1256.2	1177.7	1129.6	1089.0	1078.9
50°	9993.9	4530.9	1431.0	1306.9	1360.0	1337.2	1129.6	1106.8	1063.7	1020.7	1005.5
52.5°	9781.2	4110.5	1243.5	1177.7	1261.3	1208.1	1043.5	1020.7	982.7	927.0	909.2
55°	9895.1	3715.4	1096.6	1073.9	1160.0	1000.4	947.2	911.8	871.2	810.5	802.9
57.5°	9527.9	3031.6	881.4	896.6	1025.7	853.5	830.7	775.0	706.6	666.1	661.0
60°	6595.1	1628.5	552.1	569.9	742.1	716.7	744.6	694.0	610.4	572.4	564.8
62.5°	3029.1	653.4	301.4	288.7	390.0	486.3	638.2	633.2	529.3	468.5	463.5
65°	734.5	298.9	215.3	202.6	220.3	291.3	415.4	498.9	428.0	357.1	349.5
67.5°	238.1	243.1	197.5	184.9	195.0	217.8	248.2	276.1	273.5	250.7	245.7
70°	190.0	220.3	182.4	167.2	167.2	174.8	167.2	134.2	116.5	126.6	131.7
72.5°	141.8	167.2	144.4	129.2	124.1	121.6	103.8	76.0	53.2	48.1	45.6
75°	83.6	93.7	88.6	76.0	70.9	63.3	50.7	32.9	17.7	12.7	7.6
77.5°	15.2	17.7	20.3	15.2	12.7	10.1	7.6	2.5	0.0	0.0	0.0
80°	0.0	2.5	2.5	2.5	0.0	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)