

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: P640120

Luminaire Tested: GWS-SA5D-730-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23299.3 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

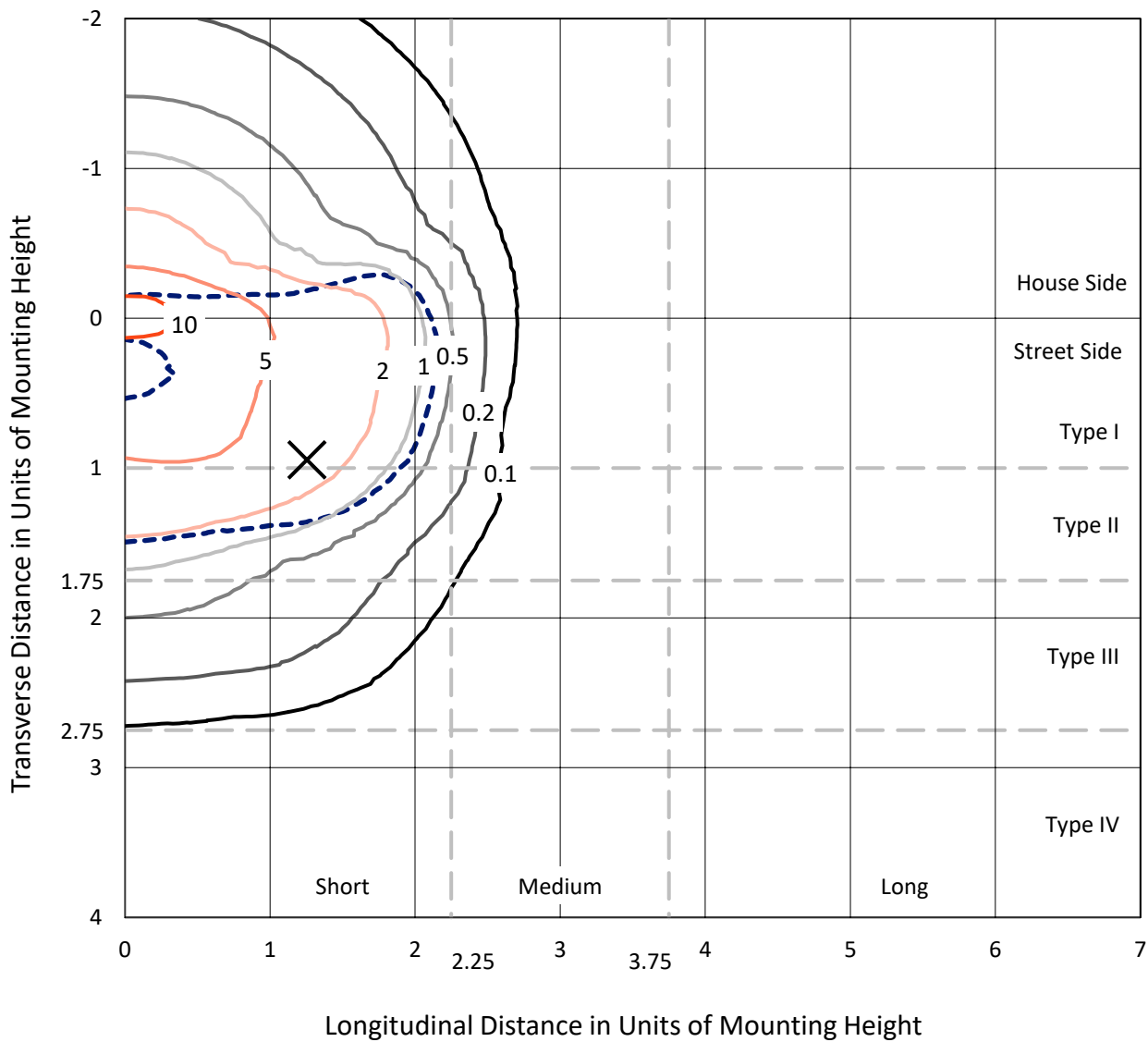
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

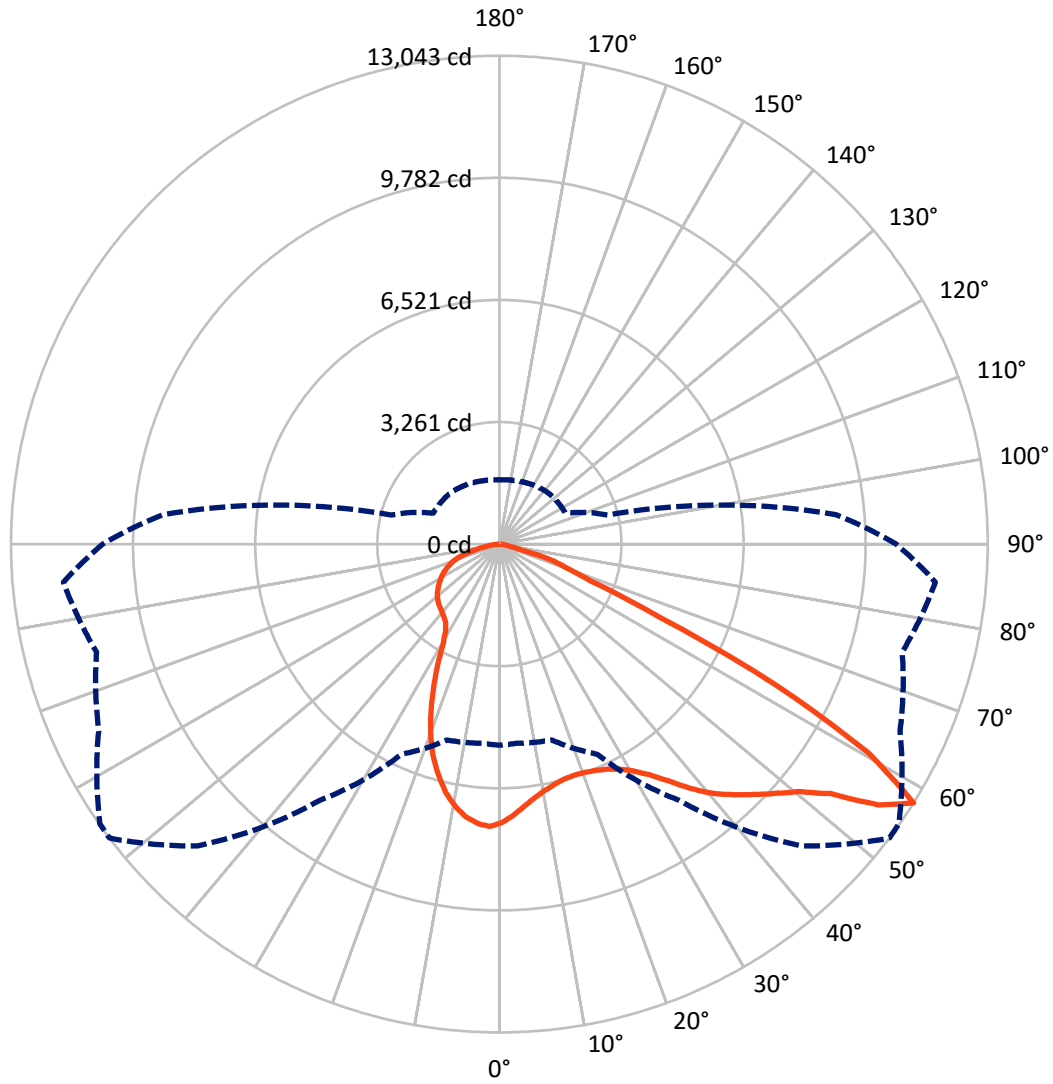
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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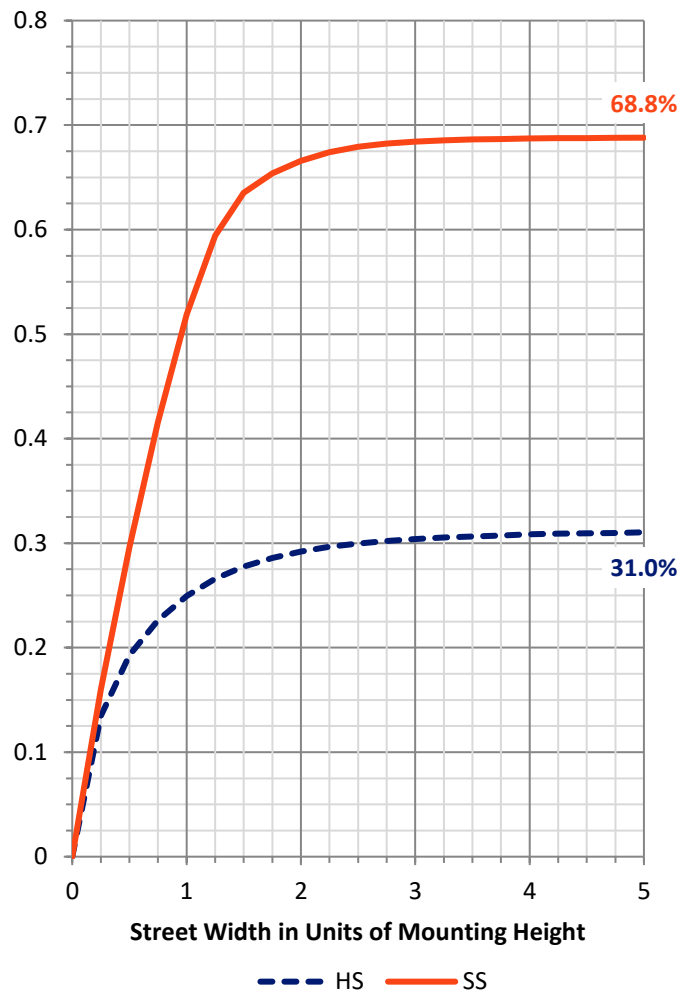
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7284.8	0.0	7284.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	16014.5	0.0	16014.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	23299.3	0.0	23299.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.8	2.9
10°-20°	1765.1	7.6
20°-30°	2600.7	11.2
30°-40°	3640.3	15.6
40°-50°	4785.4	20.5
50°-60°	5610.9	24.1
60°-70°	3305.4	14.2
70°-80°	822.3	3.5
80°-90°	96.5	0.4
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°	23299.3	100.0
0°-180°	23299.3	100.0

Coefficient of Utilization



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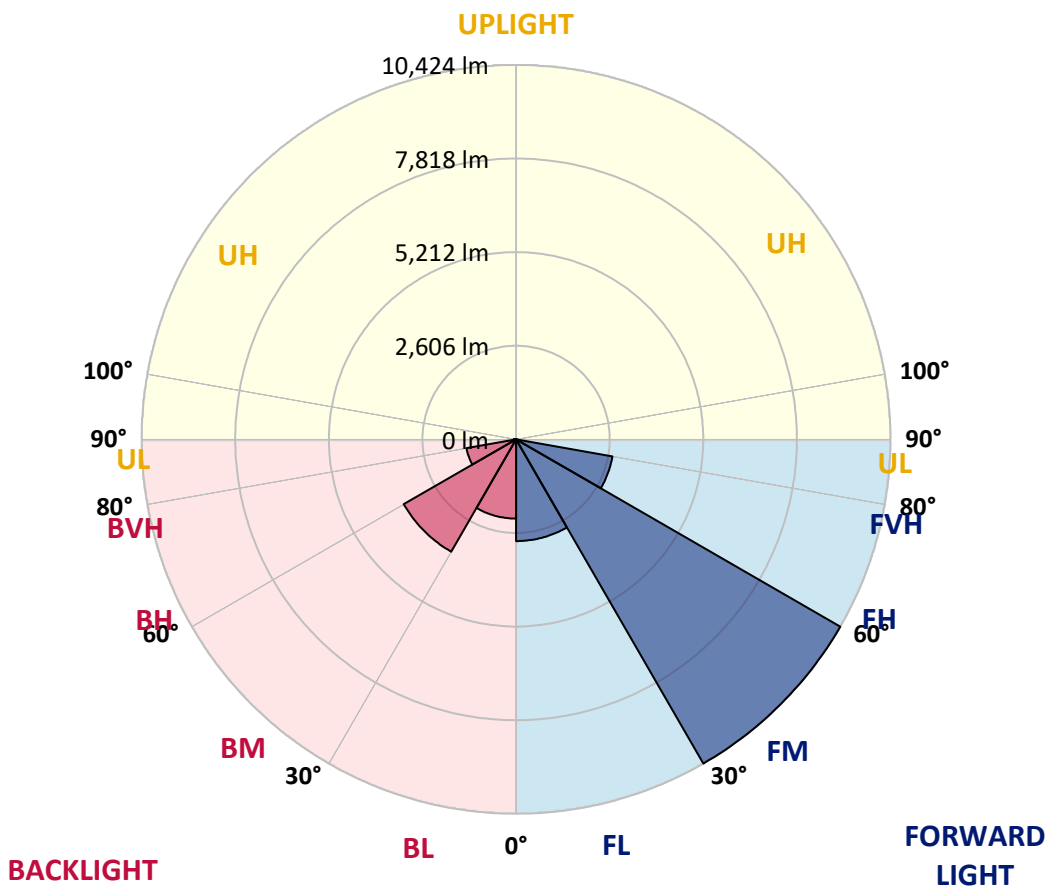
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2832.7	12.2			
FM (30°-60°)	10424.3	44.7			
FH (60°-80°)	2725.1	11.7			G2/5000
FVH (80°-90°)	32.3	0.1			G1/100
BL (0°-30°)	2205.9	9.5	B3/2500		
BM (30°-60°)	3612.2	15.5	B3/5000		
BH (60°-80°)	1402.6	6.0	B3/2500		G3/2500
BVH (80°-90°)	64.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1
2.5°	7012.6	7032.2	7036.1	7096.9	7100.8	7189.1	7247.9	7236.2	7296.9	7371.5	7430.3
5°	6677.3	6679.2	6698.8	6771.4	6810.6	6926.3	7024.4	7024.4	7142.0	7295.0	7426.4
7.5°	6400.8	6398.8	6416.4	6496.8	6561.6	6700.8	6834.1	6849.8	7014.6	7238.1	7451.9
10°	6143.9	6157.6	6177.2	6275.3	6357.6	6530.2	6689.0	6714.5	6922.4	7198.9	7487.2
12.5°	5979.1	5981.1	6010.5	6120.3	6226.2	6410.6	6577.2	6608.6	6847.9	7161.6	7512.7
15°	5873.2	5875.2	5906.6	6028.2	6151.7	6338.0	6508.6	6543.9	6804.7	7155.7	7561.7
17.5°	5826.2	5824.2	5853.6	5975.2	6110.5	6304.7	6487.0	6530.2	6824.3	7200.9	7648.0
20°	5826.2	5828.1	5843.8	5953.6	6090.9	6296.8	6508.6	6561.6	6900.8	7302.8	7781.3
22.5°	5908.5	5916.4	5924.2	5998.7	6106.6	6308.6	6565.5	6636.1	7065.5	7473.4	7955.8
25°	6069.3	6071.3	6079.2	6139.9	6189.0	6341.9	6659.6	6765.5	7322.4	7722.5	8175.5
27.5°	6285.1	6312.5	6320.4	6359.6	6359.6	6424.3	6806.7	6959.6	7669.5	8081.3	8455.9
30°	6587.1	6596.9	6610.6	6653.7	6606.7	6579.2	7022.4	7218.5	8071.5	8514.7	8793.2
32.5°	6851.8	6873.4	6947.9	7018.5	6934.2	6847.9	7340.1	7571.5	8457.9	8965.8	9152.1
35°	7077.3	7130.3	7273.4	7430.3	7371.5	7285.2	7761.7	8002.9	8775.5	9289.3	9469.7
37.5°	7349.9	7391.1	7587.2	7842.1	7895.1	7853.9	8275.5	8448.1	8987.3	9371.7	9642.3
40°	7626.4	7689.1	7942.1	8295.1	8497.1	8526.5	8750.1	8865.8	9059.9	9210.9	9609.0
42.5°	7908.8	8016.6	8363.7	8775.5	9134.4	9201.1	9150.1	9199.1	9036.4	8989.3	9454.1
45°	8253.9	8381.4	8773.6	9299.1	9771.7	9875.7	9542.3	9497.2	9032.4	8905.0	9358.0
47.5°	8661.8	8789.3	9163.8	9775.7	10379.7	10456.1	9944.3	9862.0	9169.7	9034.4	9487.4
50°	9022.6	9110.9	9446.2	10130.6	10946.4	10991.5	10387.5	10287.5	9510.9	9393.3	9891.4
52.5°	8655.9	8646.1	8999.1	9842.3	11240.5	11783.7	11069.9	10973.8	10169.8	9989.4	10516.9
55°	7344.0	7232.2	7548.0	8377.5	10418.9	12487.8	12293.6	12101.4	11048.4	10589.5	11103.3
57.5°	5369.3	5337.9	5414.4	6192.9	8346.1	11397.4	13042.7	13025.1	11807.3	11138.6	11687.7
60°	4198.5	4151.5	3947.5	3969.1	5688.9	8903.0	11319.0	11838.7	12277.9	11468.0	12095.5
62.5°	3727.9	3692.6	3586.7	3294.5	3388.6	5969.3	8297.1	8773.6	10728.7	10128.6	10389.5
65°	3086.6	3076.8	3165.1	3153.3	2839.6	3296.5	4682.9	5163.4	6745.9	6830.2	6745.9
67.5°	2243.4	2225.8	2449.3	2890.5	2733.7	2488.5	2610.1	2776.8	3459.2	3106.2	2796.4
70°	1459.0	1433.5	1562.9	2088.5	2447.3	2168.9	1880.6	1853.2	1902.2	1182.5	1278.6
72.5°	978.5	949.1	947.2	1149.2	1478.6	1461.0	1457.0	1443.3	1288.4	933.4	1035.4
75°	545.2	521.6	515.7	496.1	529.5	539.3	574.6	594.2	643.2	707.9	784.4
77.5°	92.2	90.2	113.7	145.1	200.0	256.9	317.7	335.3	413.8	490.3	539.3
80°	51.0	52.9	68.6	84.3	111.8	153.0	196.1	207.9	254.9	296.1	335.3
82.5°	27.5	27.5	35.3	45.1	60.8	80.4	105.9	115.7	147.1	172.6	200.0
85°	9.8	9.8	13.7	17.6	25.5	33.3	41.2	47.1	64.7	88.2	100.0
87.5°	0.0	0.0	0.0	0.0	2.0	3.9	7.8	7.8	9.8	17.6	25.5
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°	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1	7440.1
2.5°	7479.3	7426.4	7498.9	7532.3	7544.0	7551.9	7500.9	7465.6	7453.8	7416.6	7395.0
5°	7506.8	7471.5	7540.1	7540.1	7491.1	7440.1	7336.2	7263.6	7212.6	7151.8	7142.0
7.5°	7553.8	7528.3	7565.6	7489.1	7365.6	7228.3	7047.9	6906.7	6793.0	6718.4	6720.4
10°	7616.6	7585.2	7555.8	7385.2	7159.7	6906.7	6630.2	6424.3	6236.0	6149.7	6102.7
12.5°	7657.8	7612.7	7489.1	7206.7	6875.3	6536.1	6145.8	5839.9	5567.3	5443.8	5434.0
15°	7708.8	7626.4	7379.3	6975.3	6514.5	6051.7	5549.7	5124.1	4755.5	4563.3	4553.5
17.5°	7775.4	7640.1	7247.9	6710.6	6134.1	5451.6	4820.2	4284.8	3892.6	3743.6	3769.1
20°	7869.6	7655.8	7098.9	6416.4	5661.5	4769.2	3982.8	3490.6	3339.6	3329.8	3310.2
22.5°	7975.5	7665.6	6934.2	6087.0	5088.8	4041.7	3290.6	3080.8	3078.8	3127.8	3139.6
25°	8095.1	7673.5	6747.9	5702.6	4469.2	3316.1	2910.1	2847.4	2896.4	2988.6	3000.4
27.5°	8248.0	7689.1	6522.3	5281.0	3810.3	2865.0	2700.3	2684.6	2743.5	2829.7	2825.8
30°	8473.6	7746.0	6283.1	4796.6	3133.7	2651.3	2572.9	2574.8	2598.3	2639.5	2645.4
32.5°	8703.0	7834.3	6049.7	4251.5	2745.4	2529.7	2494.4	2490.5	2490.5	2508.1	2512.1
35°	8920.7	7934.3	5796.8	3682.8	2557.2	2459.1	2435.6	2423.8	2417.9	2414.0	2408.1
37.5°	9042.2	7983.3	5549.7	3121.9	2457.2	2412.1	2388.5	2372.8	2351.3	2335.6	2331.6
40°	8989.3	7926.4	5263.4	2702.3	2396.4	2366.9	2339.5	2317.9	2288.5	2274.8	2266.9
42.5°	8812.8	7749.9	4951.6	2504.2	2347.3	2317.9	2284.6	2249.3	2229.7	2217.9	2215.9
45°	8626.5	7536.2	4575.1	2388.5	2300.3	2265.0	2225.8	2186.5	2165.0	2159.1	2157.1
47.5°	8620.6	7430.3	4175.0	2296.4	2243.4	2208.1	2159.1	2119.9	2096.3	2088.5	2080.6
50°	8879.5	7538.1	3724.0	2215.9	2184.6	2147.3	2092.4	2049.3	2019.8	2010.0	2008.1
52.5°	9416.8	7944.1	3320.0	2135.5	2106.1	2063.0	2017.9	1974.7	1939.4	1921.8	1919.8
55°	9997.3	8459.8	3069.0	2053.2	2014.0	1976.7	1935.5	1888.5	1849.2	1821.8	1817.9
57.5°	10597.3	9022.6	2992.5	1949.3	1919.8	1894.3	1845.3	1794.3	1749.2	1723.7	1717.9
60°	11091.5	9507.0	3135.7	1839.4	1823.7	1790.4	1745.3	1696.3	1664.9	1645.3	1641.4
62.5°	9285.4	7740.1	2531.7	1719.8	1719.8	1684.5	1633.5	1598.2	1576.7	1562.9	1559.0
65°	5892.9	4792.7	1727.7	1600.2	1598.2	1551.2	1508.0	1484.5	1474.7	1453.1	1449.2
67.5°	2567.0	2190.5	1476.6	1478.6	1470.8	1419.8	1376.6	1359.0	1339.4	1315.8	1313.9
70°	1331.5	1357.0	1321.7	1343.3	1329.6	1268.8	1227.6	1200.1	1159.0	1135.4	1137.4
72.5°	1074.6	1102.1	1141.3	1174.6	1145.2	1096.2	1031.5	998.2	945.2	919.7	921.7
75°	819.7	849.1	886.4	921.7	898.1	837.4	796.2	762.8	702.0	672.6	678.5
77.5°	564.8	580.5	625.6	623.6	615.8	598.1	537.3	498.1	435.3	400.0	404.0
80°	351.0	360.8	382.4	392.2	388.3	364.7	315.7	286.3	249.0	227.5	229.4
82.5°	211.8	217.7	237.3	239.2	237.3	219.6	182.4	160.8	137.3	125.5	125.5
85°	107.9	111.8	123.5	123.5	111.8	94.1	84.3	74.5	60.8	54.9	54.9
87.5°	29.4	29.4	37.3	31.4	25.5	23.5	11.8	9.8	3.9	2.0	2.0
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)