

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: P638006

Luminaire Tested: GWS-SA4D-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17055.8 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

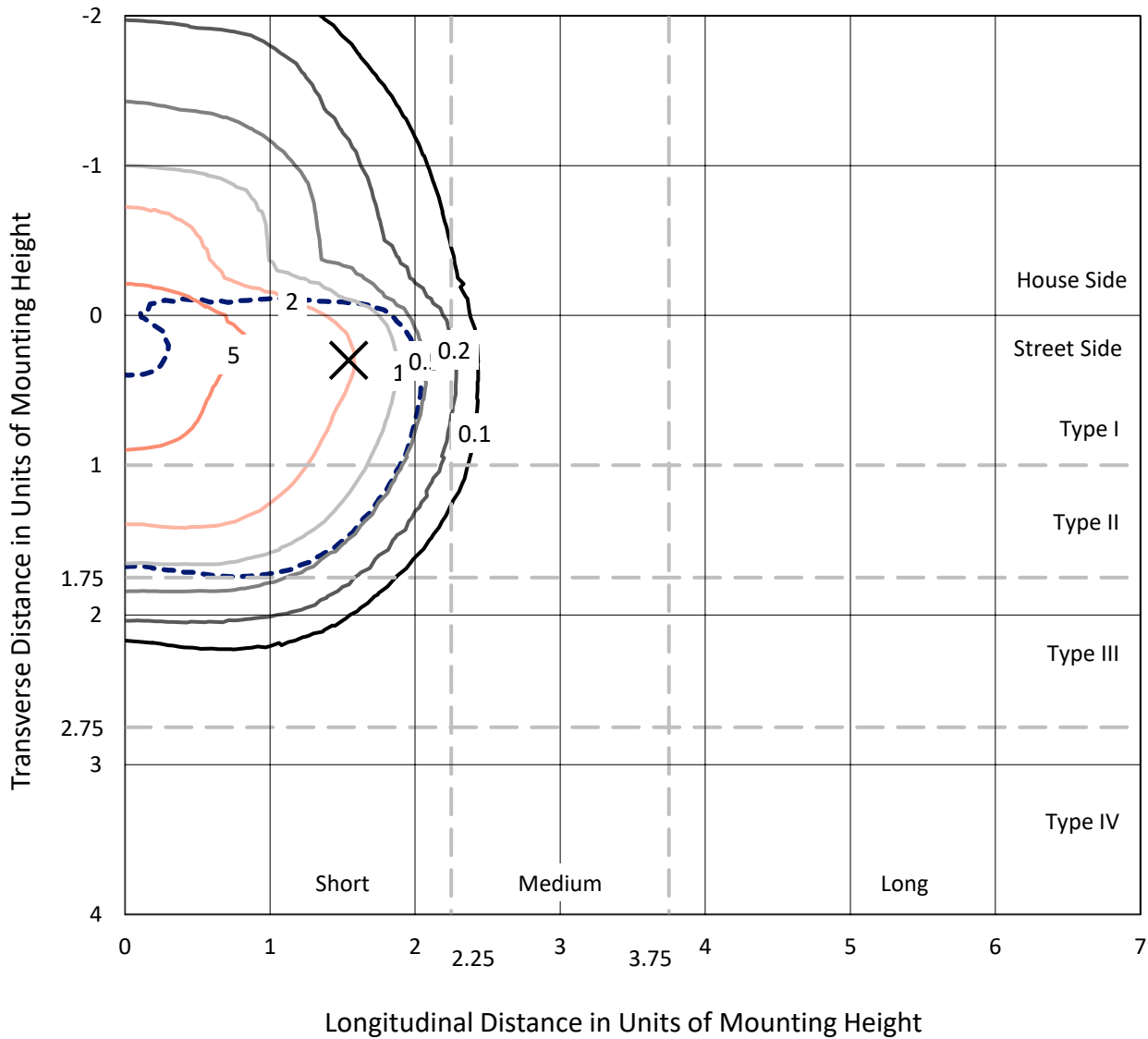
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

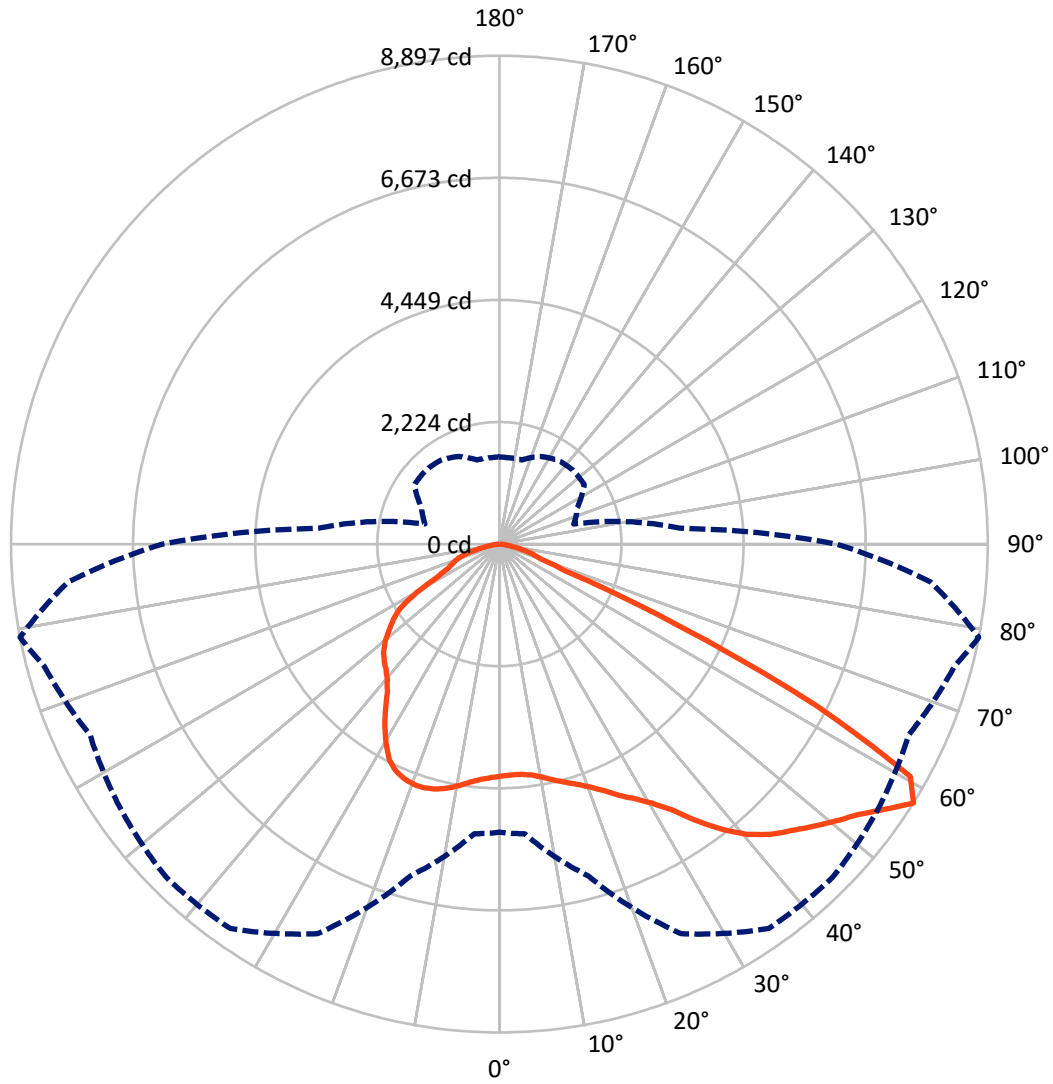
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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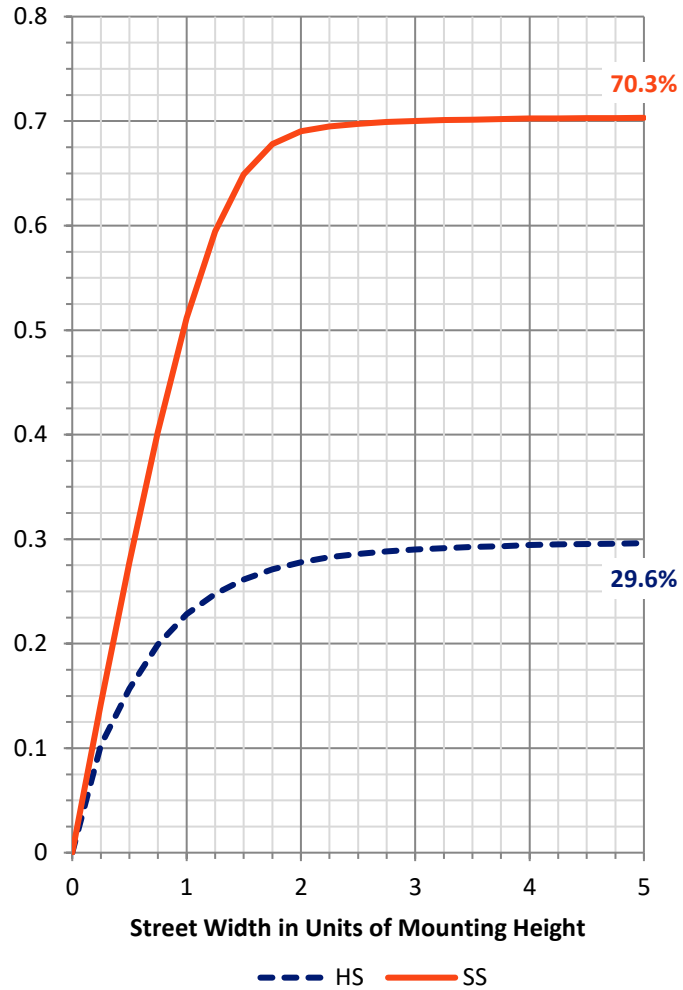
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5069.9	0.0	5069.9
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	11985.9	0.0	11985.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	17055.8	0.0	17055.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.4	2.3
10°-20°	1087.8	6.4
20°-30°	1843.9	10.8
30°-40°	2822.3	16.5
40°-50°	3763.3	22.1
50°-60°	4346.3	25.5
60°-70°	2258.5	13.2
70°-80°	480.1	2.8
80°-90°	62.2	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°	17055.8	100.0
0°-180°	17055.8	100.0

Coefficient of Utilization



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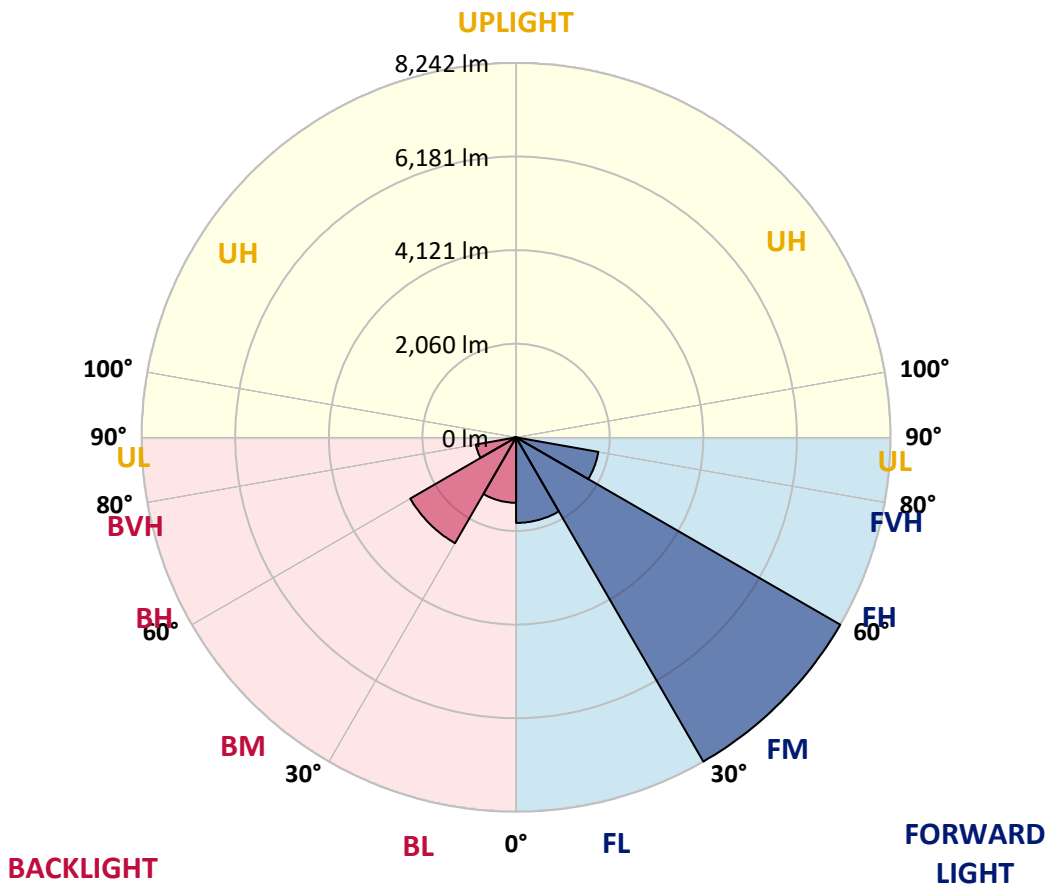
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1883.3	11.0			
FM (30°-60°)	8241.8	48.3			
FH (60°-80°)	1839.0	10.8			G2/5000
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	1439.8	8.4	B3/2500		
BM (30°-60°)	2690.1	15.8	B3/5000		
BH (60°-80°)	899.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	40.5	0.2			G1/100
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°	79°	85°
0°	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8
2.5°	4034.4	4026.0	4028.8	4040.0	4081.8	4112.5	4144.5	4173.8	4201.7	4210.1	4217.1
5°	3890.7	3875.4	3879.6	3897.7	3946.5	3998.1	4055.3	4125.0	4192.0	4214.3	4243.6
7.5°	3788.9	3786.1	3793.1	3821.0	3872.6	3921.4	3995.3	4094.3	4210.1	4247.7	4299.3
10°	3653.7	3648.1	3676.0	3733.2	3818.2	3896.3	3984.2	4101.3	4263.1	4318.9	4398.3
12.5°	3546.3	3543.5	3572.8	3652.3	3761.0	3885.2	4006.5	4137.6	4334.2	4410.9	4508.5
15°	3609.0	3596.5	3597.9	3653.7	3751.3	3897.7	4062.3	4203.1	4405.3	4502.9	4628.4
17.5°	3791.7	3769.4	3752.7	3762.4	3818.2	3970.2	4147.3	4291.0	4487.6	4602.0	4755.3
20°	4044.1	4031.6	3985.6	3954.9	3967.4	4101.3	4281.2	4415.1	4595.0	4723.3	4887.8
22.5°	4383.0	4352.3	4289.6	4240.8	4203.1	4307.7	4473.7	4589.4	4744.2	4878.1	5049.6
25°	4802.8	4758.1	4659.1	4582.4	4501.5	4608.9	4756.7	4844.6	4949.2	5073.3	5236.5
27.5°	5230.9	5193.2	5083.1	4979.9	4879.5	4946.4	5122.1	5172.3	5161.2	5251.8	5391.3
30°	5686.9	5639.5	5534.9	5423.3	5293.6	5336.9	5494.4	5519.6	5401.0	5476.3	5571.1
32.5°	6168.0	6122.0	6031.3	5901.7	5755.2	5772.0	5815.2	5838.9	5725.9	5769.2	5841.7
35°	6657.5	6614.3	6522.2	6393.9	6286.5	6184.7	6076.0	6170.8	6105.3	6188.9	6183.3
37.5°	7105.1	7061.9	7004.7	6905.7	6721.6	6520.8	6269.8	6386.9	6488.7	6594.7	6576.6
40°	7407.7	7378.5	7392.4	7377.1	7140.0	6742.6	6364.6	6492.9	6770.4	6951.7	6942.0
42.5°	7668.5	7639.2	7720.1	7778.7	7499.8	6947.6	6410.7	6533.4	6950.3	7233.4	7219.5
45°	7784.3	7775.9	7909.8	8095.2	7828.9	7165.1	6529.2	6617.0	7087.0	7449.6	7396.6
47.5°	7646.2	7675.5	7939.1	8252.8	8102.2	7423.1	6771.8	6794.2	7265.5	7683.9	7534.6
50°	7371.5	7435.6	7791.2	8257.0	8301.6	7714.5	7107.9	7052.1	7505.4	7933.5	7607.2
52.5°	6971.3	7038.2	7618.3	8224.9	8416.0	8052.0	7555.6	7476.1	7808.0	8183.1	7619.7
55°	6052.3	6142.9	7222.3	8152.4	8527.6	8358.8	8060.4	7898.6	8198.4	8526.2	7743.8
57.5°	5250.4	5297.8	6257.3	7830.3	8549.9	8584.7	8420.2	8227.7	8586.1	8897.1	7883.3
60°	3853.1	3864.2	4727.5	6479.0	7865.2	8453.6	8390.9	8105.0	8402.0	8600.1	7244.6
62.5°	2176.9	2178.3	2867.2	4324.4	5875.2	6890.4	6929.4	6677.0	6427.4	6486.0	5042.6
65°	817.2	893.9	1309.5	2125.3	3387.3	4067.8	4229.6	4288.2	3872.6	3614.6	2704.0
67.5°	546.7	564.8	764.2	1093.3	1507.5	1740.4	1946.8	1952.3	1428.0	1273.2	1065.4
70°	417.0	435.1	601.0	782.3	764.2	705.6	762.8	741.9	767.0	787.9	810.2
72.5°	311.0	329.1	465.8	552.2	458.8	451.8	511.8	569.0	622.0	644.3	679.1
75°	206.4	220.3	313.8	295.6	253.8	299.8	373.7	430.9	461.6	488.1	514.6
77.5°	131.1	140.8	167.3	135.3	140.8	175.7	217.5	269.1	298.4	324.9	338.9
80°	60.0	58.6	57.2	64.1	79.5	103.2	131.1	161.8	184.1	195.2	203.6
82.5°	23.7	26.5	29.3	34.9	43.2	55.8	73.9	94.8	113.0	115.7	122.7
85°	9.8	11.2	12.6	15.3	19.5	25.1	30.7	43.2	54.4	58.6	62.8
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	4.2	7.0	12.6	13.9	15.3
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°	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8
2.5°	4254.7	4236.6	4267.3	4288.2	4307.7	4286.8	4279.8	4261.7	4258.9	4258.9	4268.7
5°	4293.8	4281.2	4313.3	4325.8	4324.4	4278.4	4250.5	4214.3	4196.1	4196.1	4198.9
7.5°	4363.5	4356.5	4374.6	4355.1	4310.5	4217.1	4125.0	4048.3	3996.7	3970.2	3978.6
10°	4479.2	4470.9	4455.5	4383.0	4254.7	4060.9	3872.6	3733.2	3649.5	3602.1	3604.9
12.5°	4592.2	4578.2	4523.9	4363.5	4099.9	3791.7	3544.9	3388.7	3296.7	3240.9	3228.3
15°	4716.3	4680.0	4562.9	4263.1	3847.5	3462.6	3204.6	3035.9	2936.9	2903.4	2902.0
17.5°	4834.8	4770.7	4558.7	4084.6	3544.9	3118.2	2858.8	2754.2	2737.5	2752.8	2757.0
20°	4954.8	4851.6	4512.7	3837.7	3185.1	2775.1	2641.2	2684.5	2747.2	2789.1	2798.8
22.5°	5078.9	4918.5	4408.1	3519.8	2805.8	2543.6	2599.4	2694.2	2772.3	2828.1	2833.7
25°	5218.3	4981.3	4251.9	3130.7	2501.8	2479.5	2589.6	2690.0	2773.7	2837.9	2849.0
27.5°	5297.8	4982.7	4033.0	2730.5	2362.3	2454.4	2565.9	2660.8	2744.4	2814.2	2826.7
30°	5375.9	4945.0	3685.7	2405.6	2321.9	2425.1	2525.5	2613.3	2692.8	2761.2	2776.5
32.5°	5486.1	4910.1	3285.5	2218.7	2298.2	2397.2	2479.5	2557.6	2618.9	2649.6	2658.0
35°	5622.7	4865.5	2860.2	2137.8	2282.8	2374.9	2447.4	2489.2	2409.7	2393.0	2411.1
37.5°	5813.8	4823.7	2436.2	2103.0	2273.1	2366.5	2430.7	2323.3	2225.7	2186.6	2200.6
40°	6020.2	4800.0	2149.0	2075.1	2277.3	2374.9	2360.9	2202.0	2061.1	1978.8	1976.0
42.5°	6195.9	4763.7	1964.9	2056.9	2288.4	2407.0	2266.1	2094.6	1885.4	1836.6	1838.0
45°	6314.4	4671.7	1867.3	2037.4	2298.2	2413.9	2221.5	1946.8	1797.5	1766.9	1765.5
47.5°	6363.2	4504.3	1804.5	2006.7	2296.8	2356.8	2130.8	1885.4	1736.2	1727.8	1733.4
50°	6331.2	4229.6	1740.4	1946.8	2263.3	2296.8	2026.3	1831.0	1694.4	1740.4	1773.8
52.5°	6212.6	3874.0	1663.7	1864.5	2203.4	2228.5	1973.3	1797.5	1663.7	1725.0	1751.5
55°	6182.0	3585.3	1566.1	1757.1	2114.1	2107.1	1917.5	1780.8	1642.8	1619.0	1623.2
57.5°	6141.5	3303.6	1404.3	1564.7	1888.2	1899.4	1864.5	1761.3	1588.4	1581.4	1588.4
60°	5335.5	2532.5	1252.3	1349.9	1550.7	1610.7	1804.5	1725.0	1500.5	1471.2	1469.8
62.5°	3484.9	1534.0	1114.2	1177.0	1263.4	1333.2	1645.5	1620.4	1404.3	1386.2	1398.7
65°	1874.2	1093.3	1013.8	1051.5	1098.9	1151.9	1363.9	1443.3	1269.0	1204.9	1206.3
67.5°	958.0	930.2	938.5	965.0	1001.3	1027.8	1100.3	1170.0	1082.2	1027.8	1026.4
70°	820.0	842.3	854.8	870.2	893.9	889.7	896.7	909.2	902.3	875.8	874.4
72.5°	698.7	733.5	736.3	739.1	747.5	727.9	715.4	694.5	695.9	700.1	701.4
75°	531.3	564.8	573.2	569.0	577.3	552.2	535.5	514.6	489.5	485.3	488.1
77.5°	345.8	372.3	384.9	382.1	386.3	366.8	358.4	336.1	306.8	295.6	295.6
80°	209.2	224.5	234.3	237.1	241.3	227.3	213.4	193.8	181.3	168.7	168.7
82.5°	126.9	136.7	143.6	143.6	147.8	132.5	121.3	107.4	101.8	90.6	90.6
85°	64.1	71.1	73.9	72.5	69.7	57.2	53.0	46.0	43.2	37.7	37.7
87.5°	15.3	19.5	19.5	13.9	13.9	7.0	4.2	1.4	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)