

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: P637346

Luminaire Tested: GWS-SA4C-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637346
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-SA4C-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17408.8 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

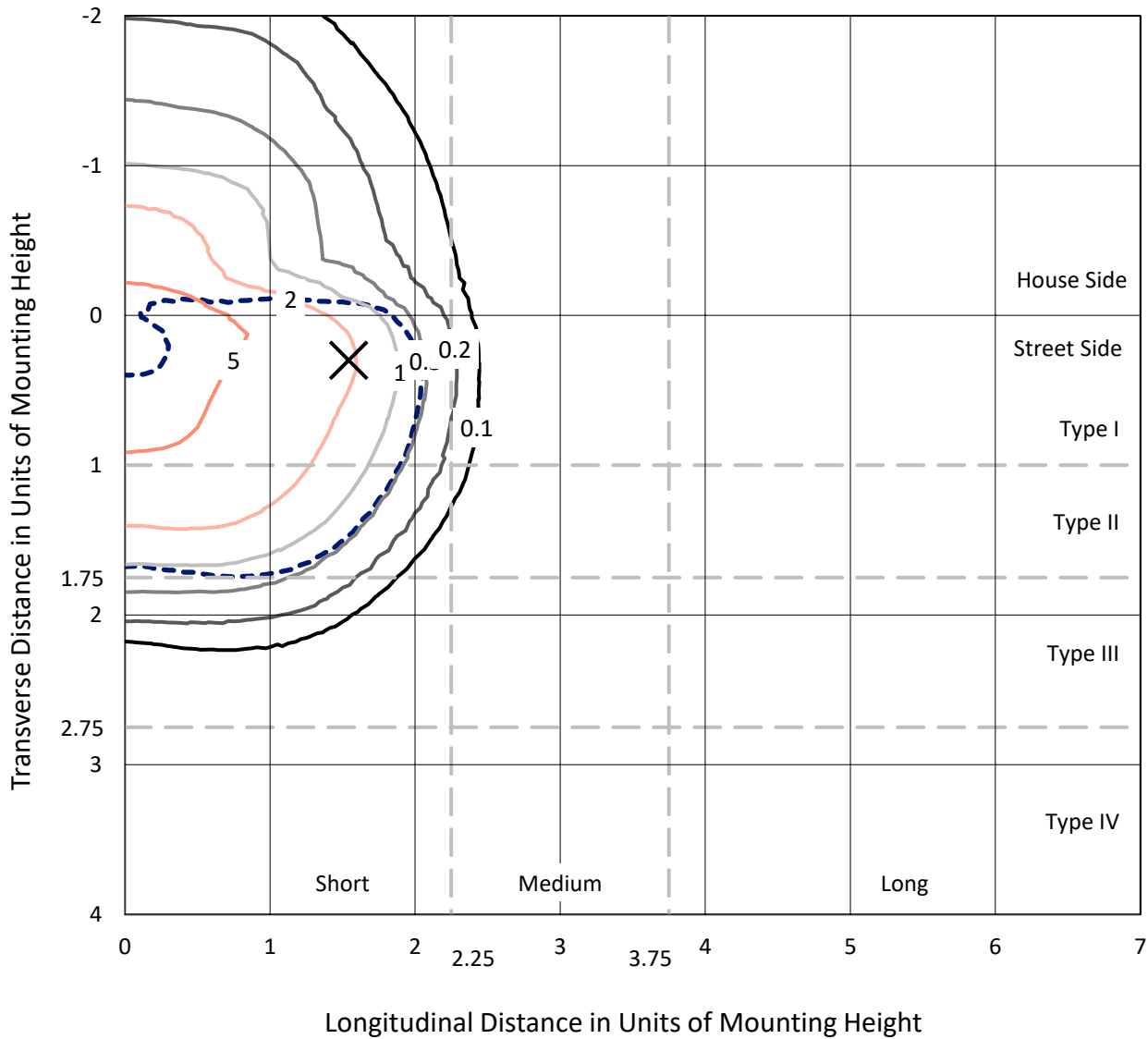
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

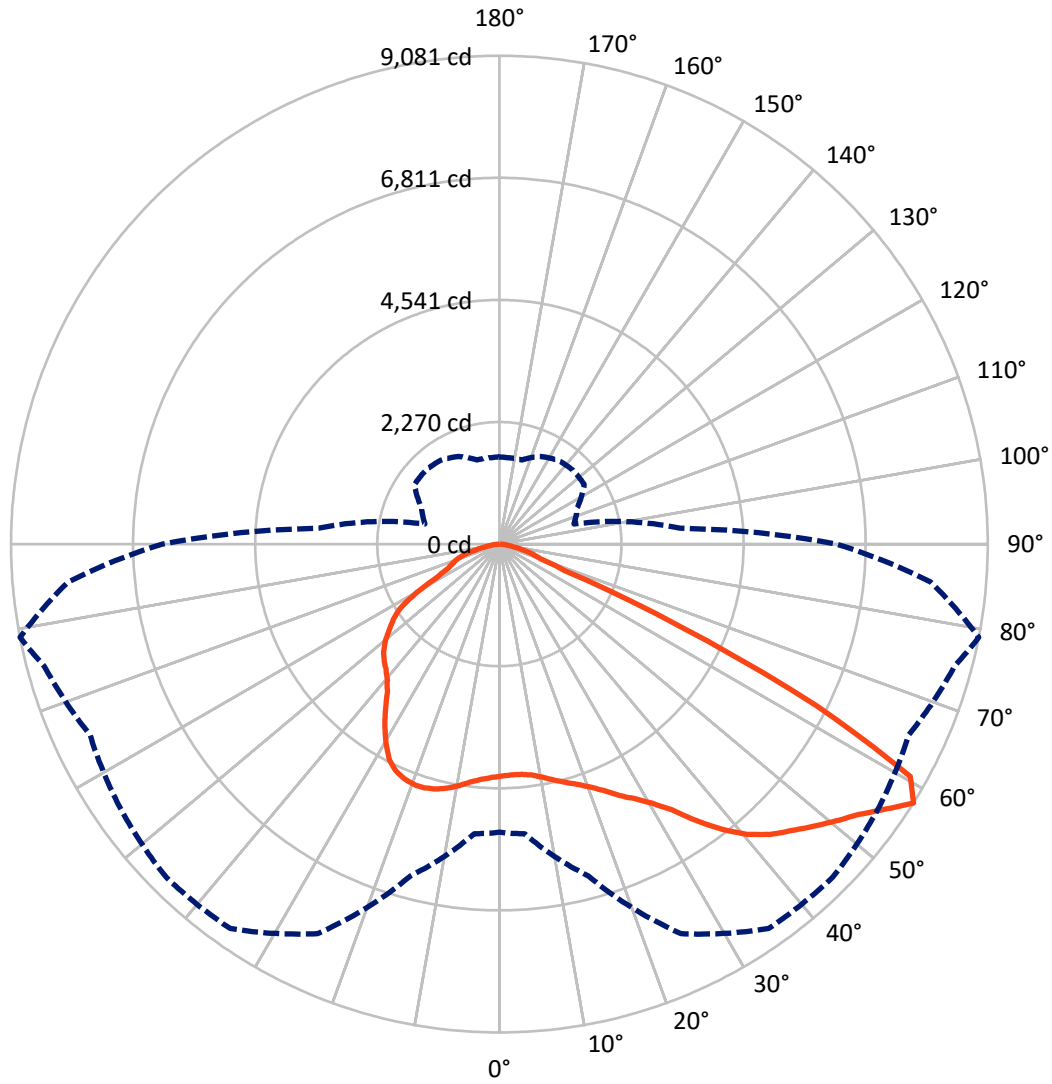
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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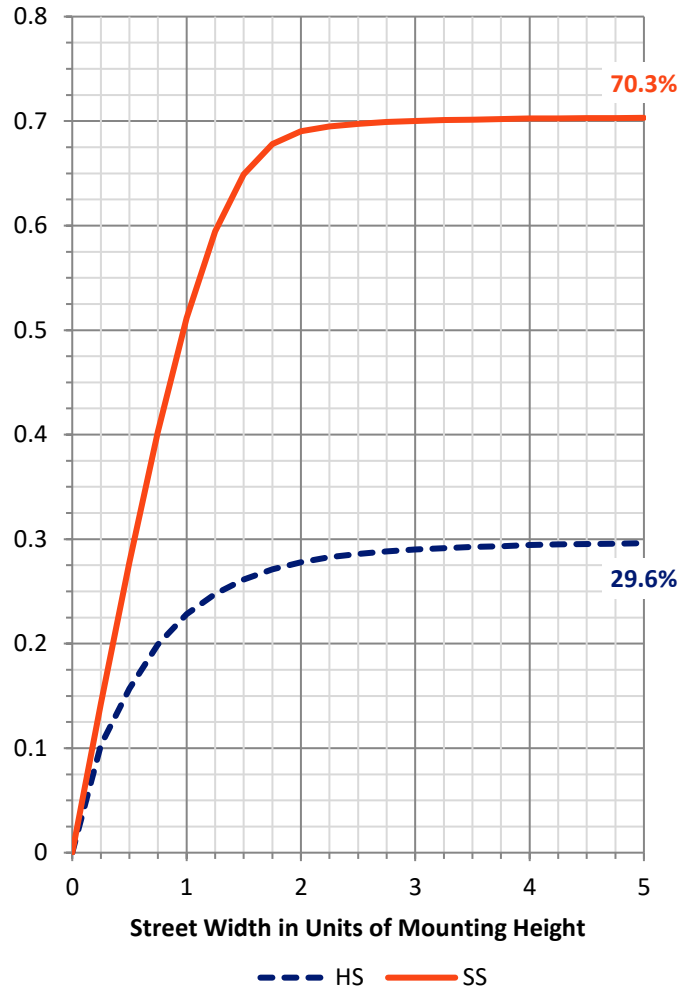
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5174.8	0.0	5174.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	12234.0	0.0	12234.0
	% Fixture	70.3	0.0	70.3
Total	Lumens	17408.8	0.0	17408.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.5	2.3
10°-20°	1110.3	6.4
20°-30°	1882.1	10.8
30°-40°	2880.7	16.5
40°-50°	3841.2	22.1
50°-60°	4436.3	25.5
60°-70°	2305.2	13.2
70°-80°	490.0	2.8
80°-90°	63.5	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°	17408.8	100.0
0°-180°	17408.8	100.0

Coefficient of Utilization



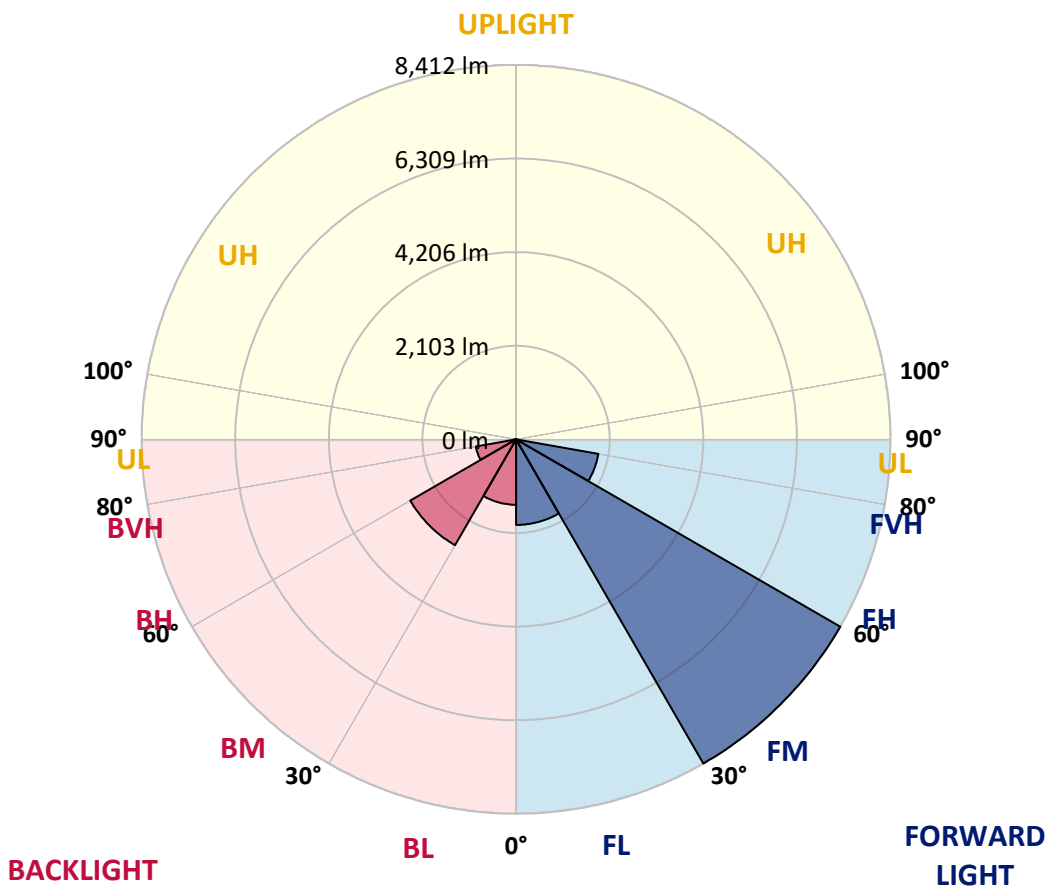
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.3	11.0			
FM (30°-60°)	8412.4	48.3			
FH (60°-80°)	1877.1	10.8			G2/5000
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	1469.6	8.4	B3/2500		
BM (30°-60°)	2745.7	15.8	B3/5000		
BH (60°-80°)	918.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	41.3	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°	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3
2.5°	4117.9	4109.3	4112.2	4123.6	4166.3	4197.6	4230.3	4260.2	4288.7	4297.2	4304.3
5°	3971.3	3955.6	3959.9	3978.4	4028.2	4080.9	4139.2	4210.4	4278.7	4301.5	4331.4
7.5°	3867.4	3864.5	3871.6	3900.1	3952.8	4002.6	4078.0	4179.1	4297.2	4335.7	4388.3
10°	3729.3	3723.6	3752.1	3810.4	3897.2	3977.0	4066.6	4186.2	4351.3	4408.2	4489.4
12.5°	3619.7	3616.8	3646.7	3727.9	3838.9	3965.6	4089.4	4223.2	4423.9	4502.2	4601.8
15°	3683.7	3670.9	3672.4	3729.3	3828.9	3978.4	4146.3	4290.1	4496.5	4596.1	4724.2
17.5°	3870.2	3847.4	3830.3	3840.3	3897.2	4052.4	4233.2	4379.8	4580.5	4697.2	4853.8
20°	4127.8	4115.0	4068.1	4036.7	4049.6	4186.2	4369.8	4506.5	4690.1	4821.0	4989.0
22.5°	4473.7	4442.4	4378.4	4328.5	4290.1	4396.9	4566.2	4684.4	4842.4	4979.0	5154.1
25°	4902.2	4856.6	4755.6	4677.3	4594.7	4704.3	4855.2	4944.9	5051.6	5178.3	5344.8
27.5°	5339.1	5300.7	5188.3	5082.9	4980.5	5048.8	5228.1	5279.4	5268.0	5360.5	5502.8
30°	5804.6	5756.2	5649.4	5535.6	5403.2	5447.3	5608.2	5633.8	5512.8	5589.7	5686.5
32.5°	6295.7	6248.7	6156.2	6023.8	5874.3	5891.4	5935.5	5959.7	5844.5	5888.6	5962.6
35°	6795.3	6751.2	6657.2	6526.3	6416.7	6312.7	6201.7	6298.5	6231.6	6317.0	6311.3
37.5°	7252.2	7208.1	7149.7	7048.6	6860.8	6655.8	6399.6	6519.1	6623.0	6731.2	6712.7
40°	7561.1	7531.2	7545.4	7529.7	7287.8	6882.1	6496.4	6627.3	6910.6	7095.6	7085.6
42.5°	7827.2	7797.3	7879.9	7939.7	7655.0	7091.3	6543.3	6668.6	7094.2	7383.1	7368.9
45°	7945.4	7936.8	8073.5	8262.8	7990.9	7313.4	6664.3	6754.0	7233.7	7603.8	7549.7
47.5°	7804.5	7834.4	8103.4	8423.6	8269.9	7576.7	6912.0	6934.8	7415.9	7842.9	7690.6
50°	7524.1	7589.5	7952.5	8427.9	8473.5	7874.2	7255.0	7198.1	7660.7	8097.7	7764.6
52.5°	7115.5	7183.9	7776.0	8395.2	8590.2	8218.7	7711.9	7630.8	7969.6	8352.5	7777.4
55°	6177.5	6270.0	7371.8	8321.2	8704.0	8531.8	8227.2	8062.1	8368.1	8702.6	7904.1
57.5°	5359.1	5407.5	6386.8	7992.3	8726.8	8762.4	8594.4	8398.0	8763.8	9081.2	8046.4
60°	3932.8	3944.2	4825.3	6613.1	8027.9	8628.6	8564.6	8272.8	8575.9	8778.1	7394.5
62.5°	2221.9	2223.3	2926.5	4413.9	5996.8	7033.0	7072.8	6815.2	6560.4	6620.2	5147.0
65°	834.1	912.4	1336.6	2169.3	3457.4	4152.0	4317.1	4376.9	3952.8	3689.4	2760.0
67.5°	558.0	576.5	780.0	1115.9	1538.7	1776.4	1987.1	1992.7	1457.6	1299.6	1087.5
70°	425.6	444.1	613.5	798.5	780.0	720.2	778.6	757.2	782.9	804.2	827.0
72.5°	317.4	335.9	475.4	563.7	468.3	461.2	522.4	580.7	634.8	657.6	693.2
75°	210.7	224.9	320.3	301.8	259.1	306.0	381.5	439.8	471.1	498.2	525.2
77.5°	133.8	143.8	170.8	138.1	143.8	179.3	222.0	274.7	304.6	331.7	345.9
80°	61.2	59.8	58.4	65.5	81.1	105.3	133.8	165.1	187.9	199.3	207.8
82.5°	24.2	27.0	29.9	35.6	44.1	56.9	75.4	96.8	115.3	118.1	125.3
85°	10.0	11.4	12.8	15.7	19.9	25.6	31.3	44.1	55.5	59.8	64.1
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	4.3	7.1	12.8	14.2	15.7
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°	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3	4314.3
2.5°	4342.8	4324.3	4355.6	4376.9	4396.9	4375.5	4368.4	4349.9	4347.0	4347.0	4357.0
5°	4382.6	4369.8	4402.6	4415.4	4413.9	4367.0	4338.5	4301.5	4283.0	4283.0	4285.8
7.5°	4453.8	4446.7	4465.2	4445.3	4399.7	4304.3	4210.4	4132.1	4079.4	4052.4	4060.9
10°	4571.9	4563.4	4547.7	4473.7	4342.8	4144.9	3952.8	3810.4	3725.0	3676.6	3679.5
12.5°	4687.2	4673.0	4617.5	4453.8	4184.8	3870.2	3618.3	3458.8	3364.9	3308.0	3295.2
15°	4813.9	4776.9	4657.3	4351.3	3927.1	3534.3	3271.0	3098.7	2997.7	2963.5	2962.1
17.5°	4934.9	4869.4	4653.1	4169.1	3618.3	3182.7	2918.0	2811.2	2794.1	2809.8	2814.0
20°	5057.3	4952.0	4606.1	3917.2	3251.0	2832.6	2695.9	2740.0	2804.1	2846.8	2856.7
22.5°	5184.0	5020.3	4499.3	3592.6	2863.9	2596.3	2653.2	2750.0	2829.7	2886.6	2892.3
25°	5326.3	5084.4	4339.9	3195.5	2553.6	2530.8	2643.2	2745.7	2831.1	2896.6	2908.0
27.5°	5407.5	5085.8	4116.5	2787.0	2411.2	2505.2	2619.0	2715.8	2801.2	2872.4	2885.2
30°	5487.2	5047.4	3762.0	2455.4	2369.9	2475.3	2577.8	2667.4	2748.6	2818.3	2834.0
32.5°	5599.6	5011.8	3353.5	2264.6	2345.8	2446.8	2530.8	2610.5	2673.1	2704.4	2713.0
35°	5739.1	4966.2	2919.4	2182.1	2330.1	2424.0	2498.1	2540.8	2459.6	2442.5	2461.0
37.5°	5934.1	4923.5	2486.7	2146.5	2320.1	2415.5	2481.0	2371.4	2271.7	2231.9	2246.1
40°	6144.8	4899.3	2193.4	2118.0	2324.4	2424.0	2409.8	2247.5	2103.8	2019.8	2016.9
42.5°	6324.1	4862.3	2005.6	2099.5	2335.8	2456.8	2313.0	2137.9	1924.4	1874.6	1876.0
45°	6445.1	4768.4	1905.9	2079.6	2345.8	2463.9	2267.5	1987.1	1834.8	1803.4	1802.0
47.5°	6494.9	4597.6	1841.9	2048.3	2344.3	2405.5	2174.9	1924.4	1772.1	1763.6	1769.3
50°	6462.2	4317.1	1776.4	1987.1	2310.2	2344.3	2068.2	1868.9	1729.4	1776.4	1810.6
52.5°	6341.2	3954.2	1698.1	1903.1	2249.0	2274.6	2014.1	1834.8	1698.1	1760.7	1787.8
55°	6309.9	3659.5	1598.5	1793.5	2157.9	2150.7	1957.2	1817.7	1676.8	1652.6	1656.8
57.5°	6268.6	3372.0	1433.4	1597.0	1927.3	1938.7	1903.1	1797.7	1621.2	1614.1	1621.2
60°	5445.9	2584.9	1278.2	1377.8	1582.8	1644.0	1841.9	1760.7	1531.6	1501.7	1500.3
62.5°	3557.1	1565.7	1137.3	1201.3	1289.6	1360.8	1679.6	1654.0	1433.4	1414.9	1427.7
65°	1913.0	1115.9	1034.8	1073.2	1121.6	1175.7	1392.1	1473.2	1295.3	1229.8	1231.2
67.5°	977.9	949.4	957.9	985.0	1022.0	1049.0	1123.1	1194.2	1104.6	1049.0	1047.6
70°	837.0	859.7	872.5	888.2	912.4	908.1	915.2	928.1	920.9	893.9	892.5
72.5°	713.1	748.7	751.6	754.4	762.9	743.0	730.2	708.8	710.3	714.5	716.0
75°	542.3	576.5	585.0	580.7	589.3	563.7	546.6	525.2	499.6	495.3	498.2
77.5°	353.0	380.0	392.9	390.0	394.3	374.4	365.8	343.0	313.1	301.8	301.8
80°	213.5	229.2	239.1	242.0	246.2	232.0	217.8	197.9	185.0	172.2	172.2
82.5°	129.5	139.5	146.6	146.6	150.9	135.2	123.8	109.6	103.9	92.5	92.5
85°	65.5	72.6	75.4	74.0	71.2	58.4	54.1	47.0	44.1	38.4	38.4
87.5°	15.7	19.9	19.9	14.2	14.2	7.1	4.3	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)