

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: P638226

Luminaire Tested: GWS-SA4E-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638226
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-SA4E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26462.6 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

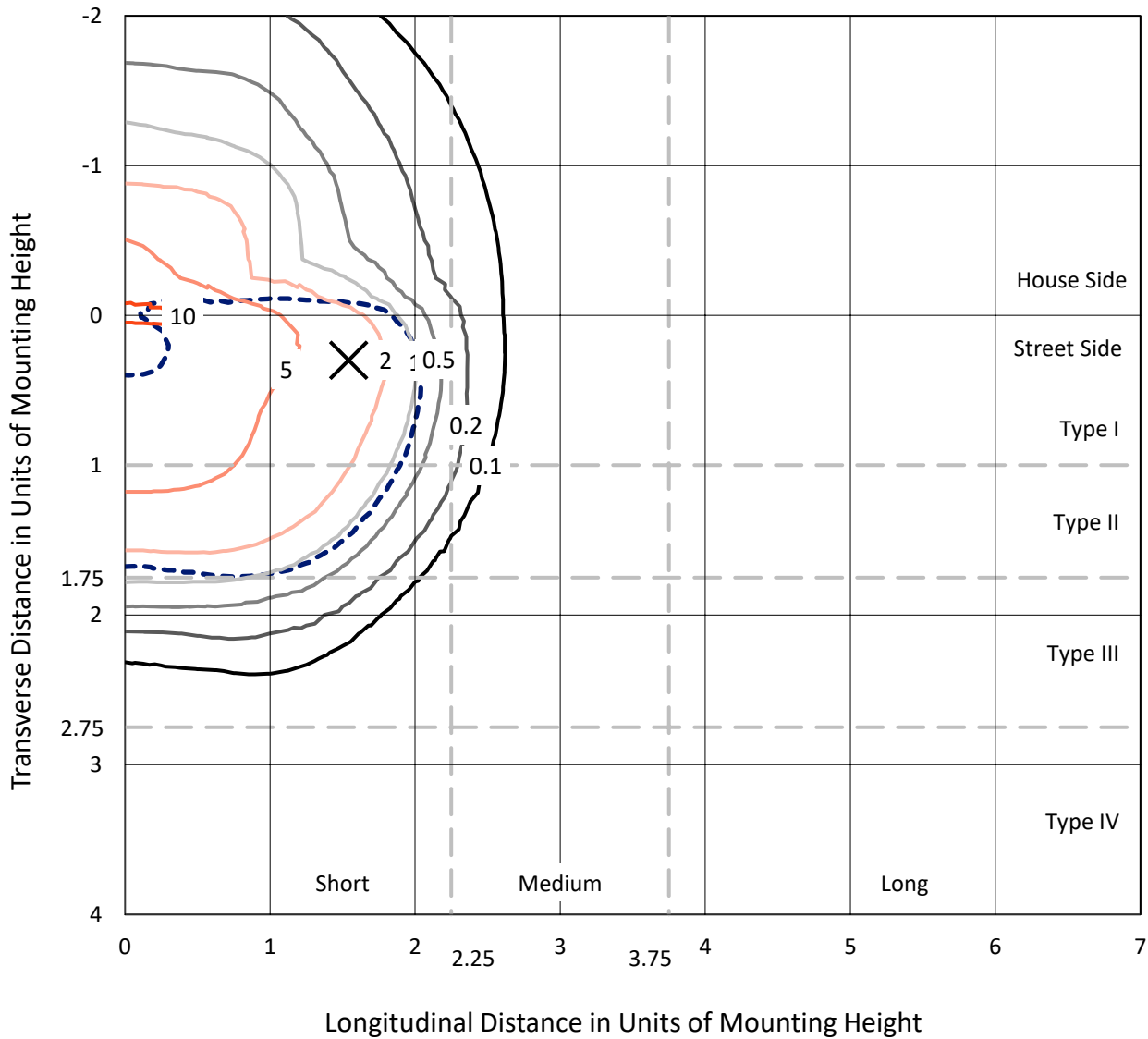
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

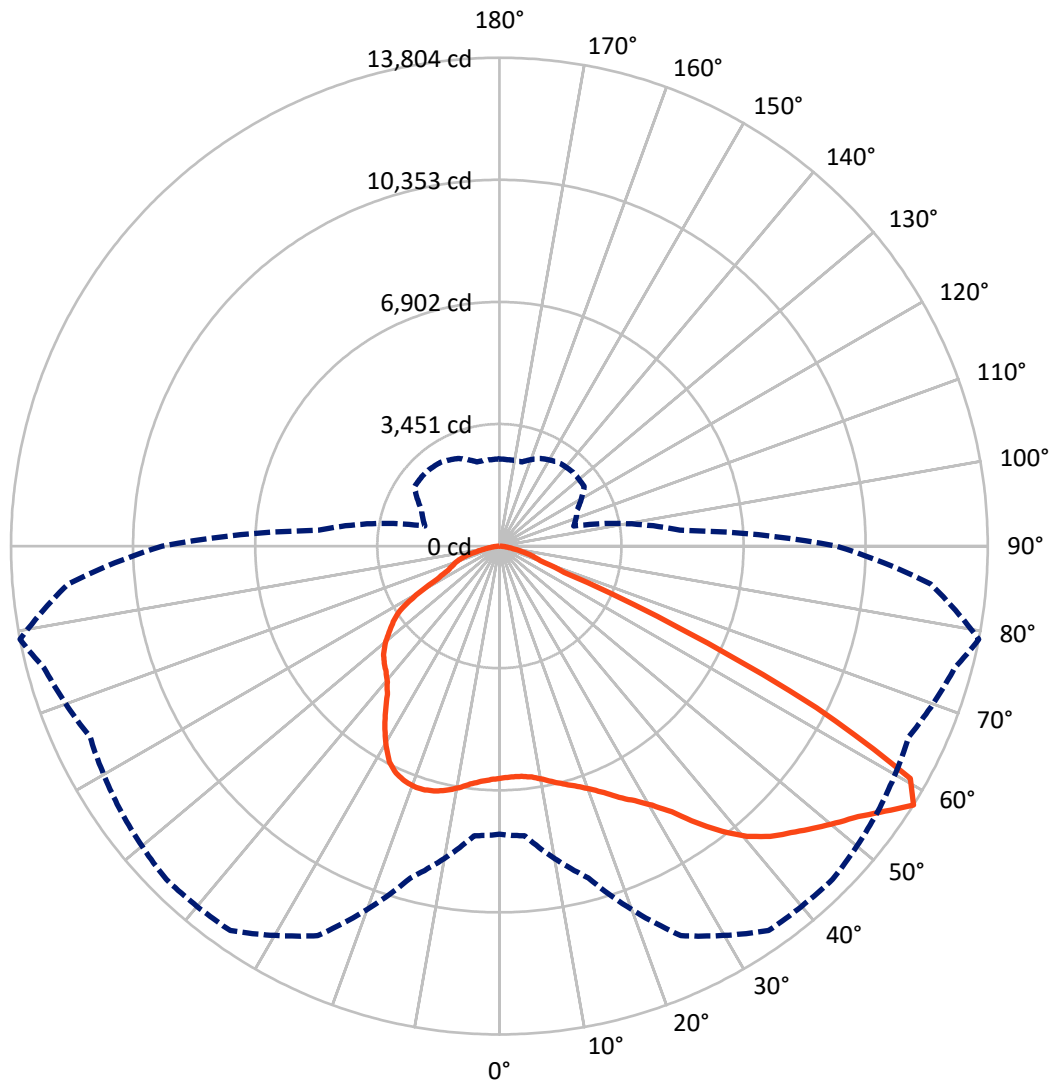
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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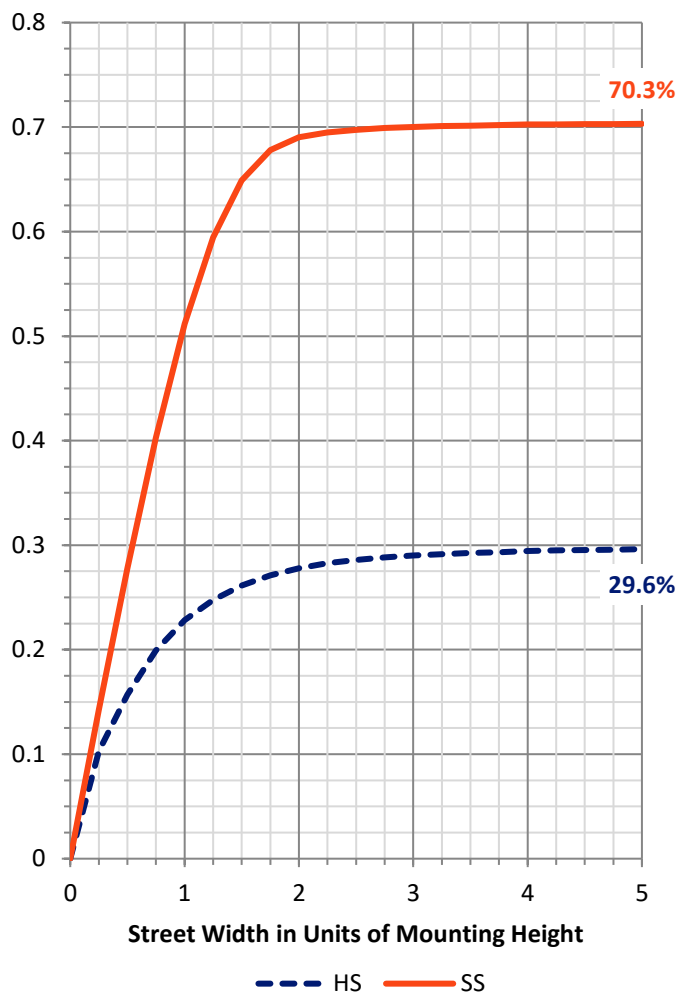
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7866.1	0.0	7866.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	18596.5	0.0	18596.5
	% Fixture	70.3	0.0	70.3
Total	Lumens	26462.6	0.0	26462.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	2.3
10°-20°	1687.8	6.4
20°-30°	2860.9	10.8
30°-40°	4378.9	16.5
40°-50°	5838.9	22.1
50°-60°	6743.4	25.5
60°-70°	3504.1	13.2
70°-80°	744.9	2.8
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°	26462.6	100.0
0°-180°	26462.6	100.0

Coefficient of Utilization



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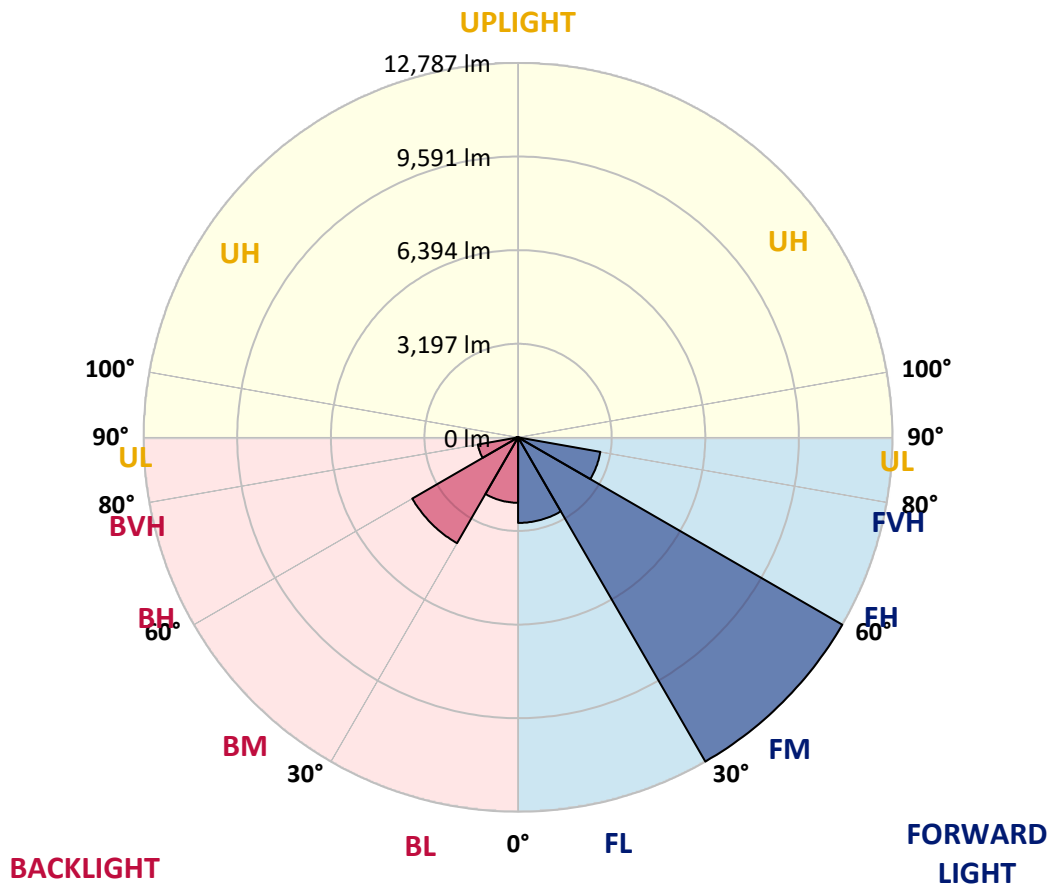
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2922.1	11.0			
FM (30°-60°)	12787.5	48.3			
FH (60°-80°)	2853.3	10.8			G2/5000
FVH (80°-90°)	33.6	0.1			G1/100
BL (0°-30°)	2233.9	8.4	B3/2500		
BM (30°-60°)	4173.7	15.8	B3/5000		
BH (60°-80°)	1395.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0
2.5°	6259.5	6246.5	6250.8	6268.1	6333.0	6380.6	6430.4	6475.8	6519.1	6532.1	6542.9
5°	6036.6	6012.8	6019.3	6047.4	6123.1	6203.2	6291.9	6400.1	6504.0	6538.6	6584.0
7.5°	5878.7	5874.3	5885.1	5928.4	6008.5	6084.2	6198.9	6352.5	6532.1	6590.5	6670.6
10°	5668.8	5660.1	5703.4	5792.1	5924.1	6045.3	6181.6	6363.3	6614.3	6700.8	6824.2
12.5°	5502.2	5497.9	5543.3	5666.6	5835.4	6027.9	6216.2	6419.6	6724.6	6843.6	6995.1
15°	5599.5	5580.1	5582.2	5668.8	5820.2	6047.4	6302.7	6521.3	6835.0	6986.4	7181.2
17.5°	5883.0	5848.4	5822.4	5837.5	5924.1	6159.9	6434.7	6657.6	6962.6	7140.1	7378.1
20°	6274.6	6255.1	6183.7	6136.1	6155.6	6363.3	6642.4	6850.1	7129.2	7328.3	7583.6
22.5°	6800.4	6752.8	6655.4	6579.7	6521.3	6683.5	6941.0	7120.6	7360.8	7568.5	7834.6
25°	7451.6	7382.4	7228.8	7109.8	6984.3	7150.9	7380.2	7516.5	7678.8	7871.4	8124.5
27.5°	8115.9	8057.5	7886.5	7726.4	7570.6	7674.5	7947.1	8025.0	8007.7	8148.3	8364.7
30°	8823.4	8749.8	8587.6	8414.5	8213.2	8280.3	8524.8	8563.8	8379.8	8496.7	8643.8
32.5°	9569.9	9498.5	9357.8	9156.6	8929.4	8955.4	9022.4	9059.2	8884.0	8951.0	9063.6
35°	10329.3	10262.2	10119.4	9920.4	9753.8	9595.8	9427.1	9574.2	9472.5	9602.3	9593.7
37.5°	11023.8	10956.8	10868.0	10714.4	10428.8	10117.3	9727.8	9909.5	10067.5	10231.9	10203.8
40°	11493.3	11447.9	11469.5	11445.7	11077.9	10461.3	9874.9	10074.0	10504.6	10785.8	10770.7
42.5°	11897.9	11852.5	11978.0	12068.9	11636.1	10779.3	9946.3	10136.7	10783.7	11222.9	11201.3
45°	12077.5	12064.6	12272.3	12560.0	12146.8	11116.9	10130.2	10266.6	10995.7	11558.3	11476.0
47.5°	11863.3	11908.8	12317.7	12804.5	12570.8	11517.1	10506.7	10541.3	11272.7	11921.7	11690.2
50°	11437.1	11536.6	12088.4	12811.0	12880.2	11969.4	11028.2	10941.6	11644.8	12309.0	11802.7
52.5°	10816.1	10920.0	11820.1	12761.2	13057.7	12493.0	11722.7	11599.4	12114.3	12696.3	11822.2
55°	9390.3	9530.9	11205.6	12648.7	13230.8	12969.0	12505.9	12255.0	12720.1	13228.6	12014.8
57.5°	8146.2	8219.7	9708.3	12148.9	13265.4	13319.5	13064.2	12765.6	13321.6	13804.1	12231.2
60°	5978.2	5995.5	7334.8	10052.3	12203.0	13116.1	13018.7	12575.2	13036.0	13343.3	11240.2
62.5°	3377.5	3379.6	4448.5	6709.5	9115.5	10690.6	10751.2	10359.6	9972.3	10063.2	7823.8
65°	1267.9	1386.9	2031.7	3297.4	5255.5	6311.4	6562.4	6653.2	6008.5	5608.2	4195.3
67.5°	848.2	876.3	1185.7	1696.3	2338.9	2700.2	3020.5	3029.1	2215.6	1975.4	1653.0
70°	646.9	675.1	932.5	1213.8	1185.7	1094.8	1183.5	1151.1	1190.0	1222.5	1257.1
72.5°	482.5	510.6	722.7	856.8	711.8	701.0	794.1	882.8	965.0	999.6	1053.7
75°	320.2	341.9	486.8	458.7	393.8	465.2	579.9	668.6	716.2	757.3	798.4
77.5°	203.4	218.5	259.6	209.9	218.5	272.6	337.5	417.6	463.0	504.1	525.8
80°	93.0	90.9	88.7	99.5	123.3	160.1	203.4	251.0	285.6	302.9	315.9
82.5°	36.8	41.1	45.4	54.1	67.1	86.5	114.7	147.1	175.3	179.6	190.4
85°	15.1	17.3	19.5	23.8	30.3	38.9	47.6	67.1	84.4	90.9	97.4
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	6.5	10.8	19.5	21.6	23.8
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°	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0
2.5°	6601.3	6573.2	6620.8	6653.2	6683.5	6651.1	6640.3	6612.1	6607.8	6607.8	6623.0
5°	6661.9	6642.4	6692.2	6711.7	6709.5	6638.1	6594.8	6538.6	6510.4	6510.4	6514.8
7.5°	6770.1	6759.3	6787.4	6757.1	6687.9	6542.9	6400.1	6281.1	6201.0	6159.9	6172.9
10°	6949.7	6936.7	6912.9	6800.4	6601.3	6300.6	6008.5	5792.1	5662.3	5588.7	5593.1
12.5°	7124.9	7103.3	7018.9	6770.1	6361.2	5883.0	5500.0	5257.7	5114.9	5028.3	5008.9
15°	7317.5	7261.2	7079.5	6614.3	5969.5	5372.4	4972.1	4710.3	4556.7	4504.7	4502.6
17.5°	7501.4	7401.9	7073.0	6337.4	5500.0	4837.9	4435.5	4273.2	4247.3	4271.1	4277.5
20°	7687.5	7527.4	7001.6	5954.4	4941.8	4305.7	4098.0	4165.0	4262.4	4327.3	4342.5
22.5°	7880.0	7631.2	6839.3	5461.1	4353.3	3946.5	4033.1	4180.2	4301.3	4387.9	4396.6
25°	8096.4	7728.6	6597.0	4857.4	3881.6	3847.0	4017.9	4173.7	4303.5	4403.0	4420.4
27.5°	8219.7	7730.7	6257.3	4236.4	3665.2	3808.0	3981.1	4128.3	4258.1	4366.3	4385.7
30°	8340.9	7672.3	5718.5	3732.3	3602.5	3762.6	3918.4	4054.7	4178.0	4284.0	4307.8
32.5°	8511.8	7618.2	5097.6	3442.4	3565.7	3719.3	3847.0	3968.1	4063.3	4110.9	4123.9
35°	8723.9	7549.0	4437.7	3316.9	3541.9	3684.7	3797.2	3862.1	3738.8	3712.8	3741.0
37.5°	9020.3	7484.1	3779.9	3262.8	3526.8	3671.7	3771.3	3604.7	3453.2	3392.6	3414.3
40°	9340.5	7447.3	3334.2	3219.5	3533.3	3684.7	3663.1	3416.4	3197.9	3070.2	3065.9
42.5°	9613.1	7391.1	3048.6	3191.4	3550.6	3734.5	3515.9	3249.8	2925.3	2849.5	2851.7
45°	9797.0	7248.3	2897.1	3161.1	3565.7	3745.3	3446.7	3020.5	2789.0	2741.4	2739.2
47.5°	9872.8	6988.6	2799.8	3113.5	3563.5	3656.6	3306.1	2925.3	2693.8	2680.8	2689.4
50°	9823.0	6562.4	2700.2	3020.5	3511.6	3563.5	3143.8	2840.9	2628.8	2700.2	2752.2
52.5°	9639.1	6010.6	2581.2	2892.8	3418.6	3457.5	3061.6	2789.0	2581.2	2676.4	2717.6
55°	9591.5	5562.8	2429.8	2726.2	3280.1	3269.3	2975.0	2763.0	2548.8	2512.0	2518.5
57.5°	9528.7	5125.7	2178.8	2427.6	2929.6	2946.9	2892.8	2732.7	2464.4	2453.6	2464.4
60°	8278.2	3929.2	1943.0	2094.4	2406.0	2499.0	2799.8	2676.4	2328.1	2282.7	2280.5
62.5°	5407.0	2380.0	1728.8	1826.1	1960.3	2068.5	2553.1	2514.2	2178.8	2150.7	2170.1
65°	2908.0	1696.3	1573.0	1631.4	1705.0	1787.2	2116.1	2239.4	1968.9	1869.4	1871.6
67.5°	1486.4	1443.2	1456.1	1497.3	1553.5	1594.6	1707.1	1815.3	1679.0	1594.6	1592.5
70°	1272.2	1306.8	1326.3	1350.1	1386.9	1380.4	1391.2	1410.7	1399.9	1358.8	1356.6
72.5°	1084.0	1138.1	1142.4	1146.7	1159.7	1129.4	1110.0	1077.5	1079.7	1086.2	1088.3
75°	824.4	876.3	889.3	882.8	895.8	856.8	830.8	798.4	759.4	753.0	757.3
77.5°	536.6	577.7	597.2	592.8	599.3	569.0	556.1	521.4	476.0	458.7	458.7
80°	324.5	348.3	363.5	367.8	374.3	352.7	331.0	300.7	281.3	261.8	261.8
82.5°	196.9	212.0	222.9	222.9	229.3	205.5	188.2	166.6	157.9	140.6	140.6
85°	99.5	110.3	114.7	112.5	108.2	88.7	82.2	71.4	67.1	58.4	58.4
87.5°	23.8	30.3	30.3	21.6	21.6	10.8	6.5	2.2	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)