

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: P638713

Luminaire Tested: GWS-SA4F-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 29534.7 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

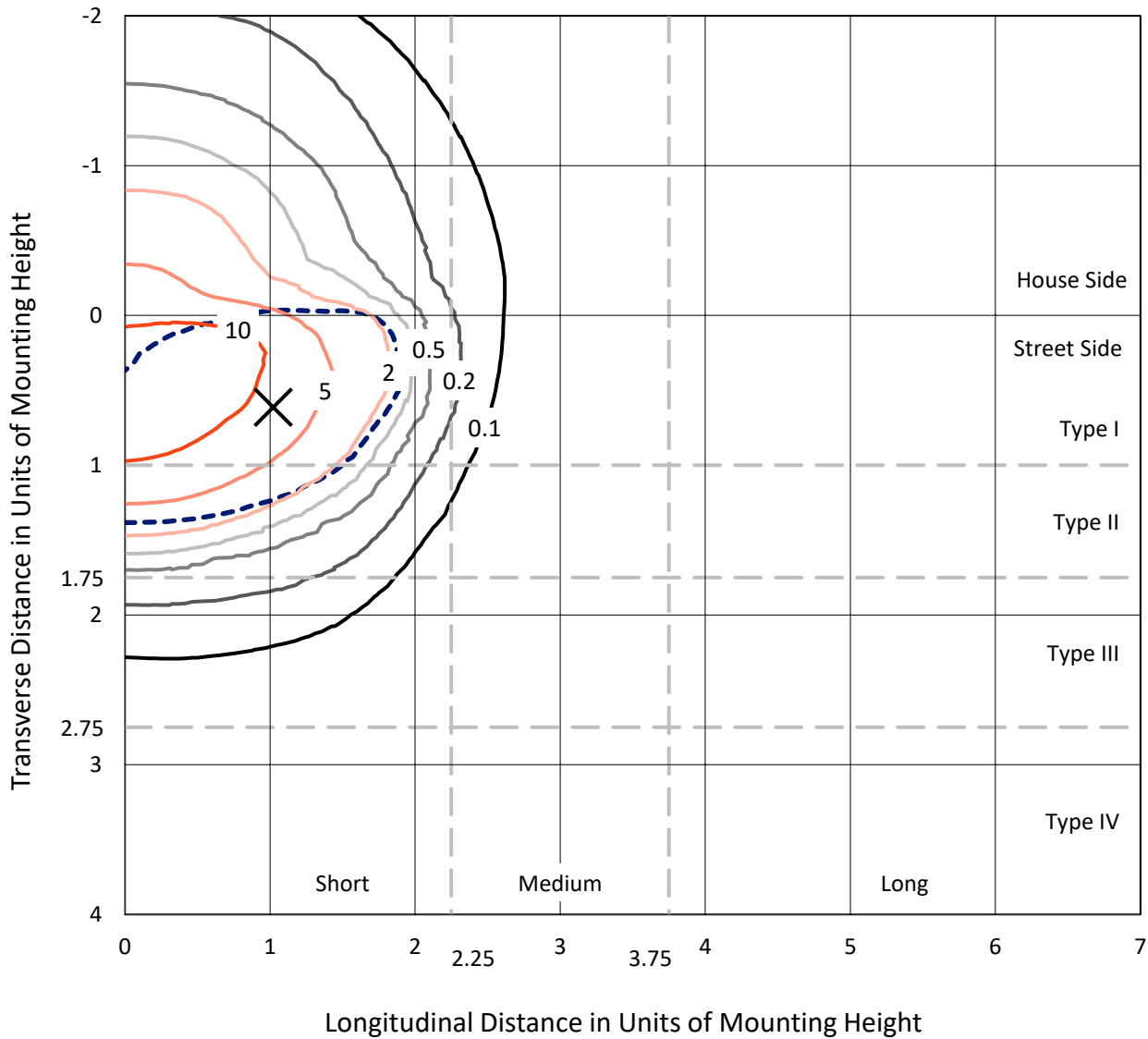
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

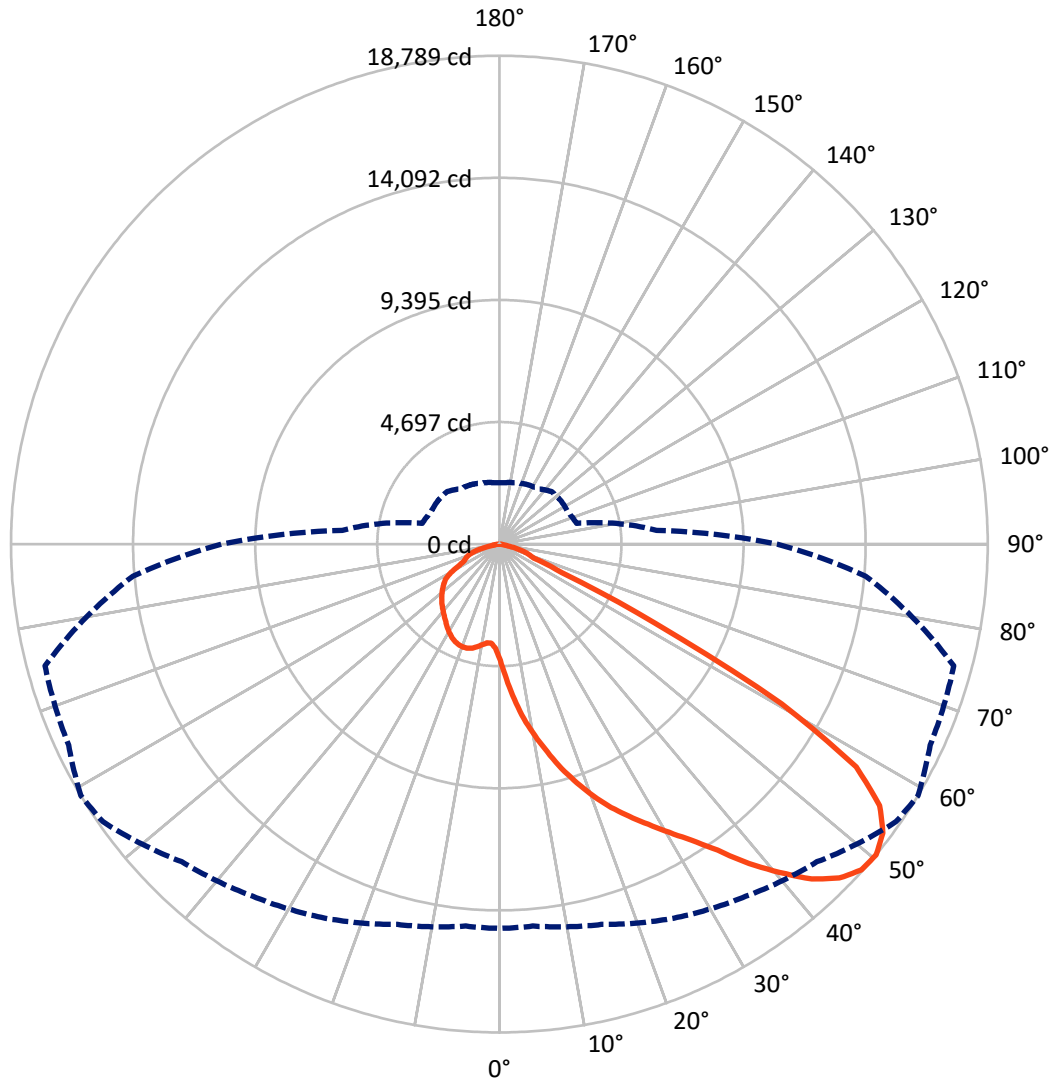
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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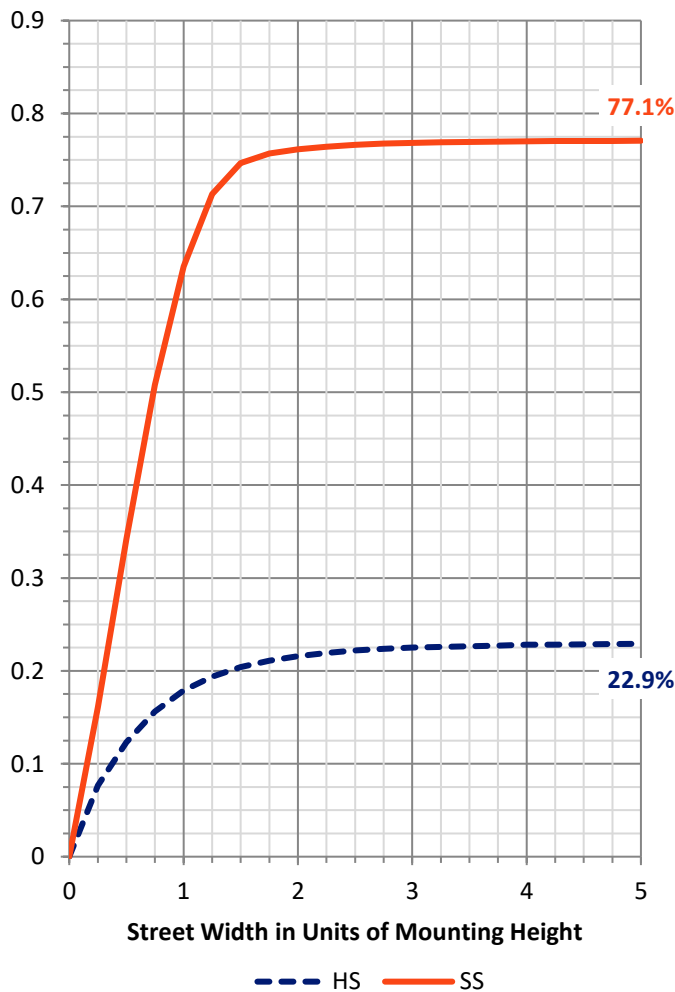
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6793.5	0.0	6793.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	22741.2	0.0	22741.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	29534.7	0.0	29534.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.0	1.7
10°-20°	1822.3	6.2
20°-30°	3450.7	11.7
30°-40°	5722.3	19.4
40°-50°	7817.0	26.5
50°-60°	7095.8	24.0
60°-70°	2363.0	8.0
70°-80°	689.2	2.3
80°-90°	72.4	0.2
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°	29534.7	100.0
0°-180°	29534.7	100.0

Coefficient of Utilization



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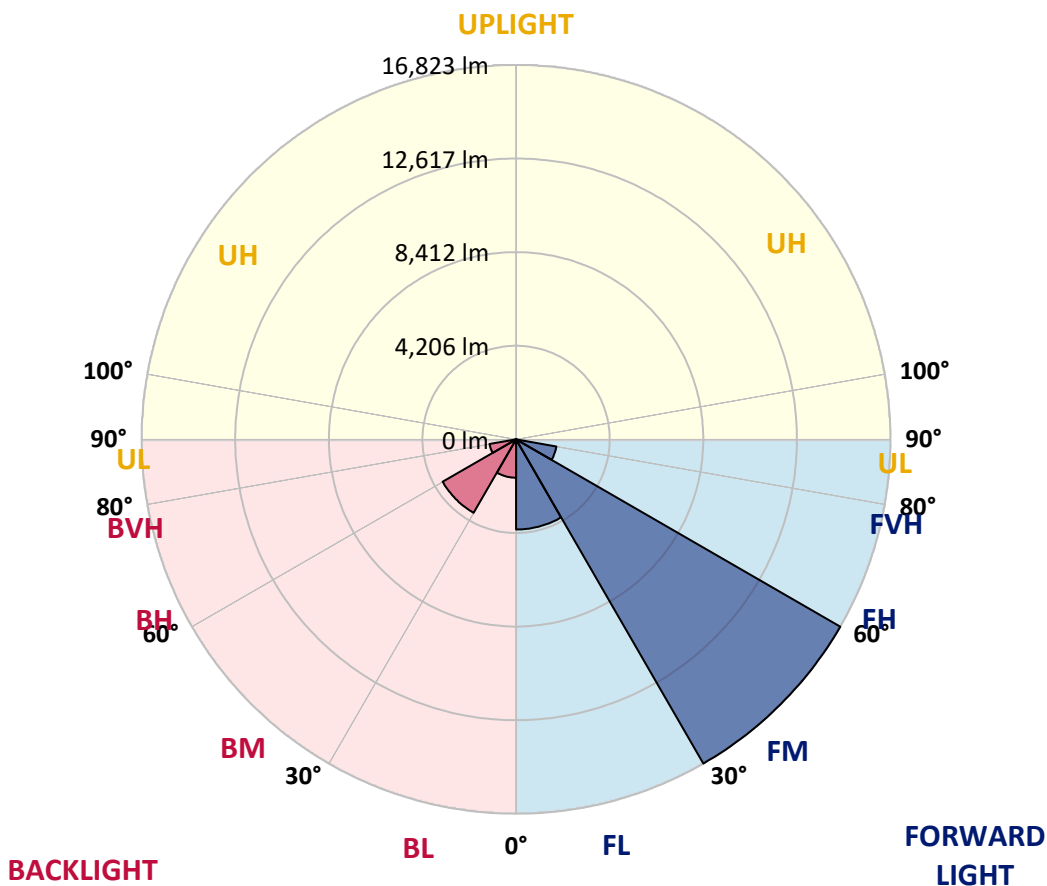
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4049.9	13.7			
FM (30°-60°)	16823.3	57.0			
FH (60°-80°)	1839.6	6.2			G2/5000
FVH (80°-90°)	28.3	0.1			G1/100
BL (0°-30°)	1725.0	5.8	B3/2500		
BM (30°-60°)	3811.8	12.9	B3/5000		
BH (60°-80°)	1212.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	44.1	0.1			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°	59°	65°	75°	85°
0°	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7
2.5°	5797.9	5841.2	5773.8	5778.6	5610.2	5533.3	5316.7	5189.2	5105.0	4869.3	4655.1
5°	6967.1	6916.6	6863.6	6832.4	6685.6	6478.7	6209.3	5995.2	5797.9	5336.0	4890.9
7.5°	7684.0	7657.5	7621.5	7602.2	7457.9	7241.3	6971.9	6789.1	6502.8	5877.3	5177.2
10°	8292.7	8261.4	8239.7	8254.2	8136.3	7996.8	7703.2	7493.9	7171.6	6449.8	5523.6
12.5°	8764.2	8781.0	8788.2	8865.2	8814.7	8730.5	8427.4	8206.1	7847.6	7053.7	5930.2
15°	9137.1	9132.3	9216.5	9363.2	9445.0	9392.1	9149.1	8963.9	8526.0	7647.9	6368.1
17.5°	9223.7	9228.5	9360.8	9618.2	9885.3	10015.2	9878.1	9656.7	9223.7	8234.9	6822.7
20°	9293.5	9303.1	9440.2	9733.7	10123.4	10486.7	10508.4	10349.6	9976.7	8870.0	7284.6
22.5°	9733.7	9755.4	9791.4	9976.7	10327.9	10787.4	11040.0	11006.4	10693.6	9536.4	7782.6
25°	10890.9	10825.9	10650.3	10597.4	10732.1	11105.0	11535.6	11600.6	11446.6	10270.2	8319.1
27.5°	12319.9	12250.1	11990.3	11716.1	11425.0	11554.9	12014.4	12209.2	12211.6	11078.5	8858.0
30°	13616.6	13561.3	13349.6	12957.4	12454.6	12267.0	12606.2	12868.4	13024.8	12012.0	9471.5
32.5°	14725.7	14675.1	14388.9	14068.9	13578.1	13200.4	13323.1	13575.7	13941.4	13219.7	10234.1
35°	15659.1	15608.6	15334.3	15012.0	14557.3	14331.1	14287.8	14461.0	14935.0	14480.3	11109.8
37.5°	16416.9	16366.4	16080.1	15777.0	15430.6	15445.0	15509.9	15594.1	15866.0	15829.9	12045.6
40°	16907.7	16854.8	16650.3	16433.8	16214.8	16388.0	16710.4	16609.4	16753.7	16919.7	12906.9
42.5°	17126.6	17059.3	16941.4	16893.3	16825.9	17095.3	17716.0	17615.0	17441.8	17646.3	13546.8
45°	16907.7	16850.0	16847.5	16994.3	17150.7	17497.1	18411.3	18329.5	17891.6	17997.5	13929.4
47.5°	16236.5	16186.0	16323.1	16708.0	17092.9	17598.1	18721.6	18736.1	18211.6	18144.3	14177.2
50°	14785.8	14752.1	15149.1	15878.0	16542.0	17283.0	18623.0	18789.0	18288.6	18098.5	14145.9
52.5°	11836.3	11992.7	12856.4	14073.7	15363.2	16729.7	18257.3	18473.8	17918.1	17797.8	13977.5
55°	8102.6	8174.8	9038.4	10816.3	12861.2	15531.6	17417.7	17752.1	17480.3	17747.3	14153.1
57.5°	4195.6	4253.4	4934.2	6512.4	8723.3	12274.2	15086.5	16183.6	16597.3	18002.3	14699.2
60°	1722.5	1770.6	2052.1	2814.7	4400.1	7147.5	10857.2	12483.5	13455.4	16441.0	13053.7
62.5°	1251.0	1275.1	1409.8	1679.2	2304.7	3502.8	6144.3	6743.3	7426.6	10303.9	8287.8
65°	1053.7	1080.2	1188.4	1352.0	1681.6	2148.3	2624.7	2639.1	2908.6	4198.1	3072.2
67.5°	882.9	907.0	1003.2	1142.7	1359.3	1525.3	1409.8	1412.2	1407.4	1522.8	1472.3
70°	688.0	707.3	803.5	952.7	1065.8	979.1	1101.8	1219.7	1169.2	1214.9	1284.7
72.5°	502.8	524.5	608.7	721.7	692.9	697.7	892.5	1012.8	984.0	1034.5	1099.4
75°	363.3	377.7	421.0	360.9	380.1	459.5	627.9	692.9	721.7	765.0	822.8
77.5°	117.9	117.9	132.3	166.0	206.9	255.0	320.0	346.4	389.7	437.8	478.7
80°	60.1	62.5	74.6	91.4	115.5	146.8	187.6	199.7	221.3	247.8	264.6
82.5°	28.9	31.3	36.1	45.7	60.1	77.0	103.4	115.5	129.9	146.8	158.8
85°	7.2	7.2	9.6	14.4	19.2	28.9	38.5	45.7	57.7	69.8	77.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	7.2	9.6	12.0	14.4	19.2
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°	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7	4474.7
2.5°	4558.9	4424.2	4251.0	4104.2	3969.5	3866.1	3777.0	3733.7	3692.8	3664.0	3673.6
5°	4684.0	4453.1	4130.7	3907.0	3769.8	3700.1	3651.9	3627.9	3623.1	3603.8	3596.6
7.5°	4866.9	4537.3	4106.6	3880.5	3789.1	3753.0	3726.5	3712.1	3719.3	3700.1	3692.8
10°	5093.0	4676.8	4166.8	3967.1	3887.7	3861.2	3832.4	3813.1	3803.5	3774.6	3769.8
12.5°	5374.5	4850.0	4275.0	4077.8	3998.4	3952.7	3914.2	3880.5	3858.8	3822.8	3813.1
15°	5677.6	5042.5	4402.5	4186.0	4092.2	4024.8	3962.3	3911.8	3873.3	3825.2	3817.9
17.5°	6007.2	5244.6	4508.4	4260.6	4140.3	4051.3	3959.9	3885.3	3832.4	3769.8	3762.6
20°	6351.2	5449.0	4587.8	4296.7	4142.7	4022.4	3899.7	3801.1	3733.7	3671.2	3666.4
22.5°	6707.3	5636.7	4635.9	4287.1	4104.2	3955.1	3808.3	3697.7	3618.3	3543.7	3538.9
25°	7065.7	5817.1	4647.9	4248.6	4027.2	3854.0	3707.3	3577.4	3488.4	3404.2	3394.5
27.5°	7429.0	5968.7	4619.1	4171.6	3923.8	3736.1	3589.4	3461.9	3370.5	3286.3	3271.8
30°	7816.3	6098.6	4556.5	4070.5	3803.5	3611.0	3466.7	3370.5	3283.9	3199.7	3185.2
32.5°	8230.1	6211.7	4467.5	3947.9	3664.0	3485.9	3380.1	3293.5	3206.9	3132.3	3117.9
35°	8723.3	6286.3	4335.2	3789.1	3534.1	3394.5	3322.4	3221.3	3115.5	3033.7	3026.4
37.5°	9233.3	6344.0	4176.4	3637.5	3421.0	3341.6	3281.5	3144.3	3012.0	2913.4	2901.3
40°	9726.5	6392.1	3979.1	3495.6	3317.5	3303.1	3221.3	3050.5	2822.0	2711.3	2701.7
42.5°	10186.0	6406.5	3772.2	3344.0	3223.7	3216.5	3125.1	2860.5	2684.8	2615.1	2605.4
45°	10501.1	6394.5	3558.1	3202.1	3129.9	3091.4	2995.2	2723.3	2615.1	2552.5	2540.5
47.5°	10734.5	6332.0	3317.5	3052.9	3024.0	2971.1	2764.2	2636.7	2535.7	2473.1	2461.1
50°	10693.6	6072.1	3074.6	2908.6	2896.5	2850.8	2595.8	2528.5	2439.4	2372.1	2362.5
52.5°	10481.9	5579.0	2826.8	2749.8	2773.8	2684.8	2475.5	2398.5	2321.6	2244.6	2227.7
55°	10534.8	5222.9	2639.1	2595.8	2639.1	2437.0	2340.8	2259.0	2186.8	2112.3	2097.8
57.5°	10765.8	4871.7	2439.4	2429.8	2475.5	2247.0	2167.6	2064.1	1960.7	1900.6	1900.6
60°	9040.9	3550.9	2088.2	2112.3	2215.7	2093.0	2023.2	1917.4	1804.3	1751.4	1751.4
62.5°	5345.6	2227.7	1732.1	1705.7	1770.6	1847.6	1886.1	1799.5	1664.8	1595.0	1597.4
65°	2355.2	1621.5	1527.7	1506.0	1486.8	1539.7	1645.5	1652.8	1510.8	1429.0	1431.4
67.5°	1450.7	1467.5	1429.0	1412.2	1395.3	1385.7	1376.1	1380.9	1342.4	1267.8	1265.4
70°	1308.7	1354.4	1328.0	1313.5	1291.9	1275.1	1217.3	1123.5	1058.5	1039.3	1060.9
72.5°	1125.9	1188.4	1174.0	1166.8	1140.3	1099.4	1022.4	931.0	854.0	805.9	815.6
75°	849.2	899.8	907.0	909.4	880.5	842.0	762.6	685.6	618.3	567.8	579.8
77.5°	488.4	517.2	524.5	531.7	510.0	495.6	442.7	387.3	351.2	298.3	312.7
80°	271.9	283.9	283.9	286.3	274.3	257.4	221.3	190.1	173.2	149.2	151.6
82.5°	163.6	168.4	170.8	173.2	166.0	149.2	122.7	101.0	91.4	79.4	77.0
85°	79.4	84.2	84.2	86.6	74.6	65.0	50.5	38.5	33.7	24.1	26.5
87.5°	19.2	21.7	21.7	19.2	16.8	12.0	7.2	2.4	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)