

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: P641459

Luminaire Tested: GWS-SA5F-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27643.3 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

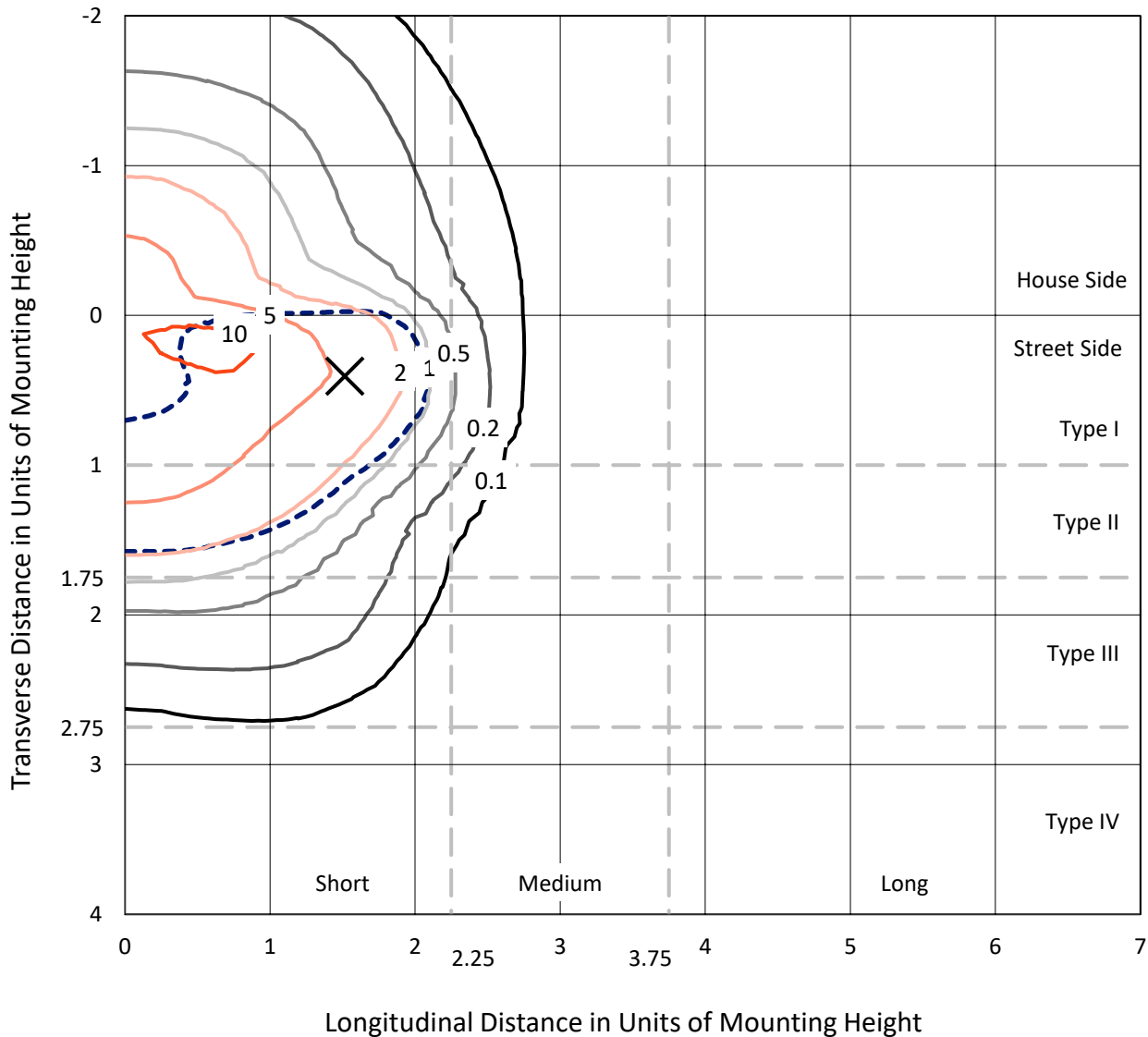
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

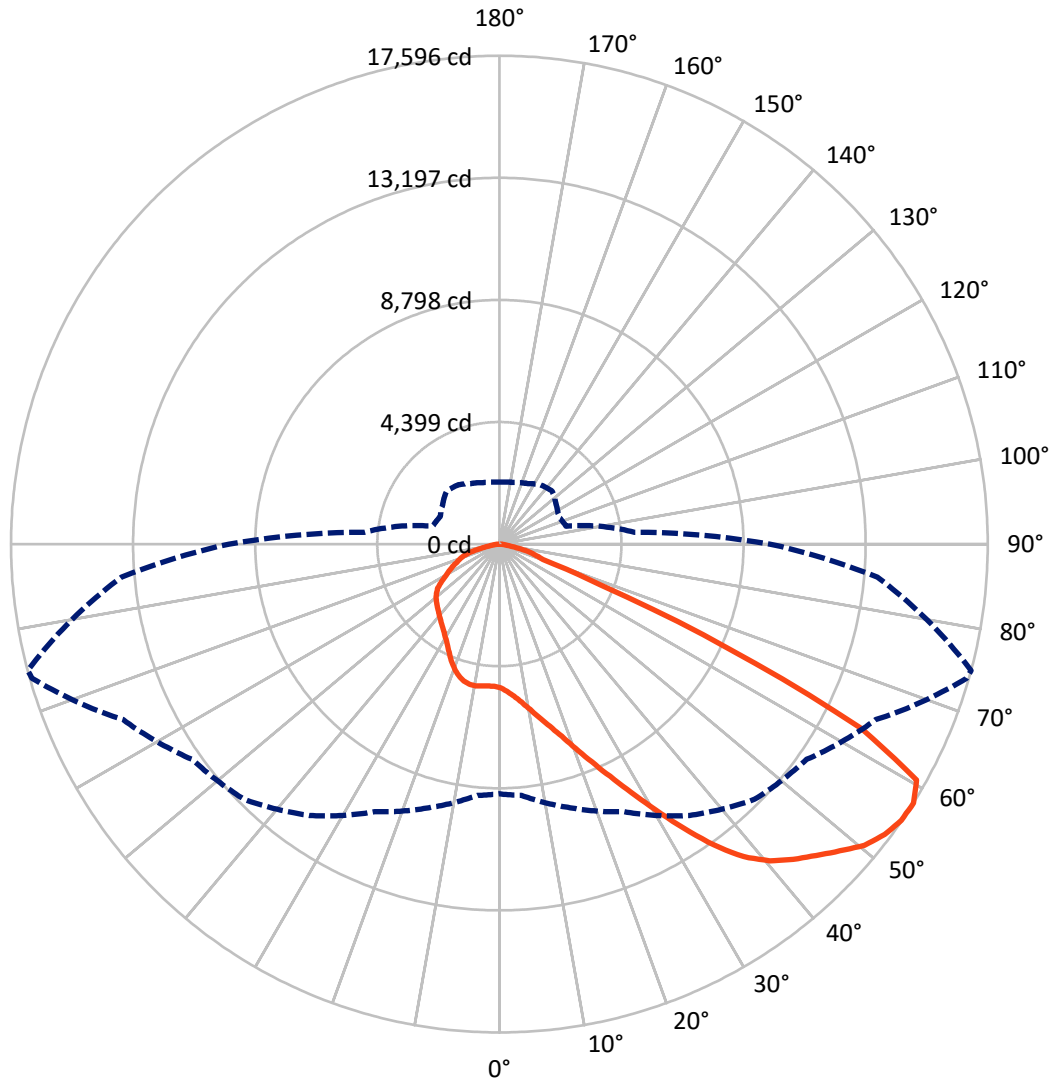
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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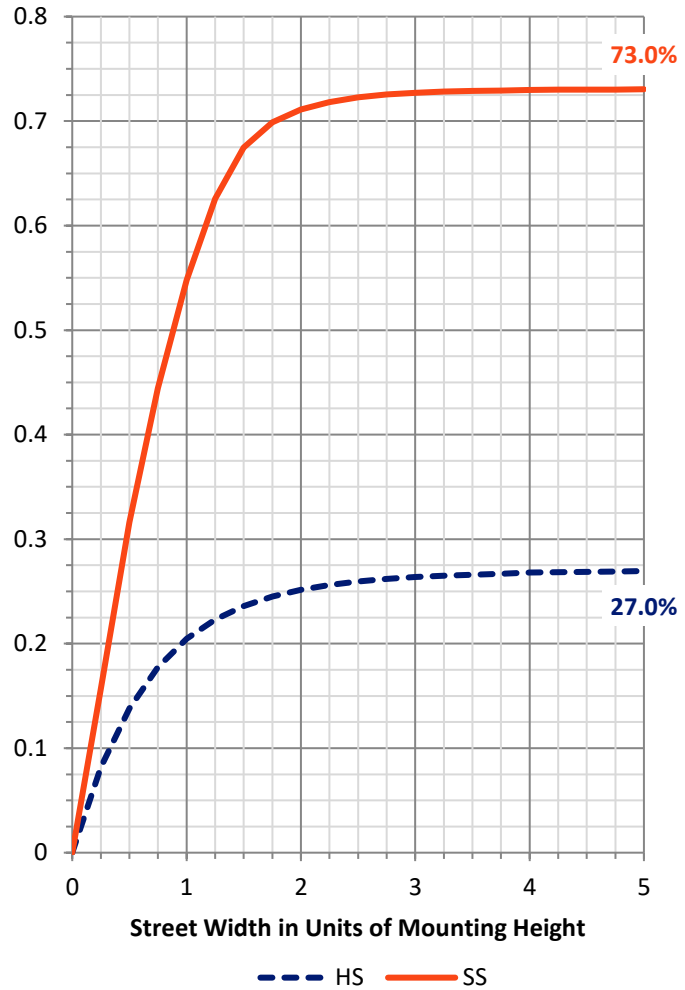
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7478.1	0.0	7478.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	20165.2	0.0	20165.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	27643.3	0.0	27643.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.0	1.9
10°-20°	1649.4	6.0
20°-30°	2925.1	10.6
30°-40°	4477.9	16.2
40°-50°	6235.0	22.6
50°-60°	7144.1	25.8
60°-70°	3670.8	13.3
70°-80°	924.2	3.3
80°-90°	98.8	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°	27643.3	100.0
0°-180°	27643.3	100.0

Coefficient of Utilization



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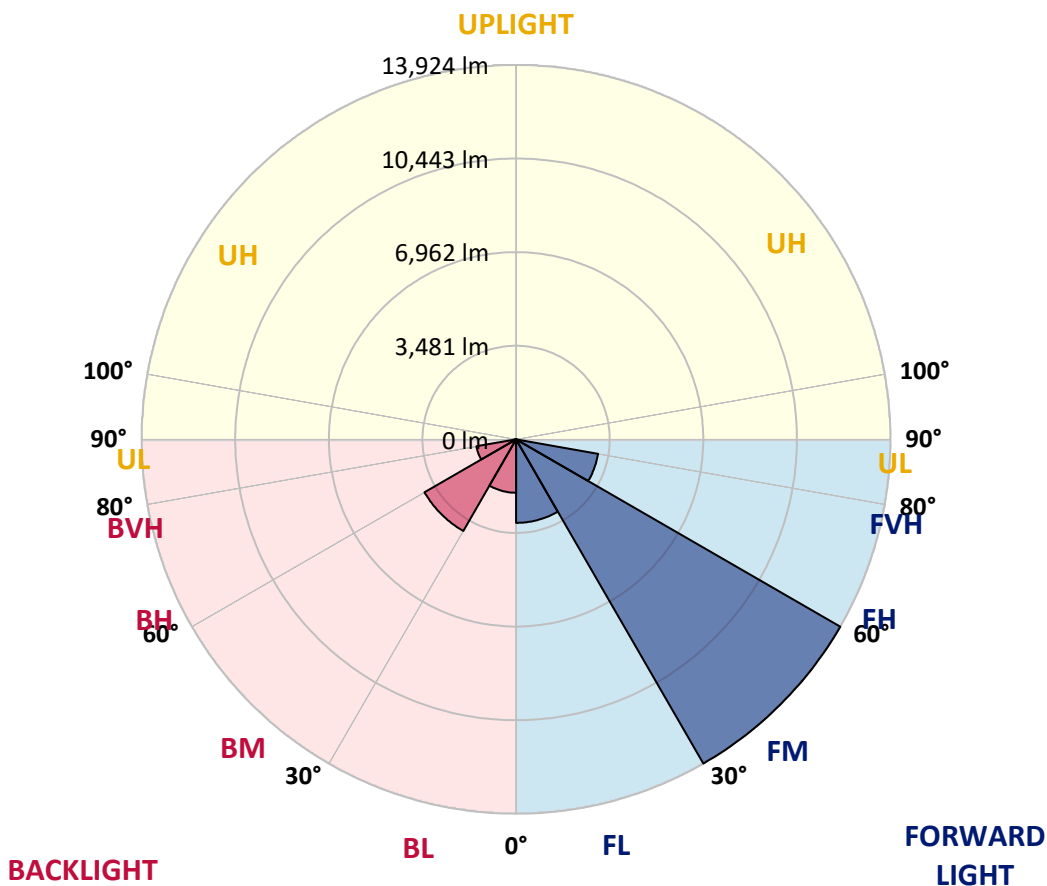
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.9	11.2			
FM (30°-60°)	13924.2	50.4			
FH (60°-80°)	3098.5	11.2			G2/5000
FVH (80°-90°)	36.6	0.1			G1/100
BL (0°-30°)	1986.6	7.2	B3/2500		
BM (30°-60°)	3932.8	14.2	B3/5000		
BH (60°-80°)	1496.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	62.2	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°	74°	75°	85°
0°	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9
2.5°	5562.0	5576.2	5562.0	5585.8	5538.2	5516.8	5464.5	5386.1	5324.3	5314.8	5245.9
5°	5994.6	6025.5	6006.5	5997.0	5932.8	5885.2	5806.8	5649.9	5521.6	5502.6	5367.1
7.5°	6272.7	6294.1	6294.1	6301.2	6277.4	6222.8	6139.6	5954.2	5773.5	5745.0	5540.6
10°	6365.4	6382.0	6412.9	6472.3	6519.9	6536.5	6481.9	6303.6	6082.5	6054.0	5768.8
12.5°	6386.8	6405.8	6453.3	6562.7	6693.4	6812.2	6821.8	6691.0	6443.8	6412.9	6032.6
15°	6427.2	6446.2	6510.4	6645.9	6838.4	7066.6	7206.8	7116.5	6843.1	6809.9	6332.1
17.5°	6422.4	6443.8	6538.9	6719.5	6978.6	7309.0	7580.0	7618.0	7335.2	7278.1	6672.0
20°	6410.5	6429.6	6531.8	6752.8	7073.7	7527.7	8017.3	8214.6	7910.4	7858.1	7069.0
22.5°	6505.6	6527.0	6605.5	6788.5	7123.6	7696.5	8421.4	8896.8	8592.6	8518.9	7525.3
25°	6719.5	6750.4	6798.0	6924.0	7213.9	7846.2	8835.0	9669.3	9357.9	9270.0	8022.1
27.5°	7049.9	7088.0	7154.5	7213.9	7416.0	8036.4	9246.2	10534.5	10223.1	10130.4	8547.4
30°	7454.0	7503.9	7589.5	7629.9	7767.8	8316.8	9693.1	11425.8	11245.2	11116.8	9139.2
32.5°	8012.6	8081.5	8162.3	8174.2	8257.4	8742.3	10135.2	12310.1	12307.7	12217.4	9811.9
35°	8739.9	8813.6	8830.2	8846.9	8887.3	9327.0	10670.0	13115.8	13427.2	13322.6	10544.0
37.5°	9533.8	9640.8	9666.9	9593.2	9650.3	10030.6	11271.3	13762.4	14401.7	14290.0	11252.3
40°	10382.4	10425.2	10496.5	10380.0	10451.3	10836.4	11860.8	14175.9	15129.1	15010.2	11810.9
42.5°	10990.9	11069.3	11176.3	11133.5	11173.9	11525.7	12274.4	14375.6	15647.2	15528.4	12212.6
45°	11651.6	11675.4	11744.3	11734.8	11758.6	12086.6	12571.5	14463.5	16110.7	16003.8	12554.9
47.5°	12226.9	12262.5	12307.7	12255.4	12203.1	12417.0	12814.0	14539.6	16645.6	16517.2	12913.8
50°	12780.7	12811.6	12866.3	12714.1	12519.2	12573.9	12932.8	14644.2	17147.1	17056.8	13196.6
52.5°	12882.9	12916.2	13172.9	13203.8	12954.2	12761.7	13142.0	14874.8	17441.8	17384.8	13298.9
55°	11597.0	11656.4	12167.4	12754.5	13370.2	13308.4	13477.1	14996.0	17558.3	17572.6	13481.9
57.5°	9001.4	9087.0	9833.3	10639.1	11934.5	13006.5	13519.9	14965.1	17517.9	17596.3	13669.7
60°	5904.3	5954.2	6838.4	7741.6	9084.6	10567.8	12100.9	14408.9	17159.0	17270.7	13622.1
62.5°	3565.4	3622.4	4333.1	5017.7	5809.2	6800.4	8207.5	11580.3	14382.7	14632.3	10910.1
65°	2488.6	2564.7	3187.4	3750.8	4024.1	3819.7	4157.2	6467.6	8961.0	9065.6	6667.3
67.5°	1804.1	1856.4	2367.4	3037.7	3339.6	2697.8	2056.0	2864.2	3902.9	3940.9	2750.1
70°	1181.3	1240.8	1704.2	2312.7	2726.3	2186.8	1537.9	1549.8	1642.5	1661.5	1597.3
72.5°	648.9	684.6	1053.0	1535.5	1611.6	1307.3	1200.3	1288.3	1352.5	1352.5	1369.1
75°	335.1	366.0	430.2	506.3	610.9	715.5	865.2	995.9	1064.9	1069.6	1062.5
77.5°	171.1	183.0	230.6	249.6	273.3	318.5	413.6	530.1	591.9	615.6	610.9
80°	80.8	85.6	97.5	114.1	140.2	178.3	223.4	266.2	304.2	309.0	335.1
82.5°	42.8	47.5	52.3	61.8	76.1	95.1	130.7	156.9	180.6	185.4	206.8
85°	16.6	19.0	21.4	23.8	33.3	40.4	54.7	73.7	90.3	90.3	107.0
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	9.5	11.9	16.6	16.6	28.5
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°	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9	5176.9
2.5°	5229.2	5160.3	5129.4	5079.5	5039.1	4993.9	4958.3	4932.1	4915.5	4906.0	4896.5
5°	5314.8	5210.2	5127.0	5027.2	4958.3	4891.7	4837.0	4799.0	4780.0	4765.7	4756.2
7.5°	5447.9	5307.7	5150.8	4996.3	4875.1	4768.1	4699.2	4658.8	4632.6	4623.1	4616.0
10°	5630.9	5436.0	5176.9	4932.1	4751.5	4635.0	4587.5	4568.4	4570.8	4566.1	4563.7
12.5°	5837.7	5571.5	5169.8	4818.0	4618.4	4549.4	4551.8	4582.7	4618.4	4627.9	4630.2
15°	6061.1	5704.6	5100.9	4670.6	4513.8	4520.9	4582.7	4656.4	4722.9	4749.1	4753.8
17.5°	6303.6	5816.3	4974.9	4509.0	4428.2	4504.3	4618.4	4739.6	4837.0	4879.8	4891.7
20°	6574.6	5911.4	4796.6	4349.8	4347.4	4473.4	4639.7	4799.0	4922.6	4979.6	4989.1
22.5°	6862.2	5970.8	4577.9	4202.4	4264.2	4433.0	4623.1	4789.5	4920.2	4977.3	4989.1
25°	7152.1	5989.8	4337.9	4066.9	4178.6	4368.8	4542.3	4675.4	4799.0	4848.9	4858.4
27.5°	7423.1	5935.2	4109.7	3950.4	4100.2	4273.7	4390.2	4461.5	4547.0	4585.1	4592.2
30°	7698.8	5825.8	3917.2	3857.7	4012.2	4143.0	4195.3	4200.0	4233.3	4233.3	4238.0
32.5°	7976.9	5664.2	3748.4	3767.4	3902.9	3988.5	3995.6	3940.9	3900.5	3834.0	3831.6
35°	8297.8	5500.2	3610.5	3665.2	3774.5	3826.8	3805.4	3700.9	3603.4	3494.1	3489.3
37.5°	8594.9	5331.4	3494.1	3560.6	3629.6	3667.6	3617.7	3491.7	3410.9	3299.2	3282.5
40°	8839.8	5179.3	3382.4	3451.3	3484.6	3517.8	3437.0	3334.8	3346.7	3284.9	3282.5
42.5°	8982.4	5031.9	3277.8	3330.1	3351.5	3375.2	3303.9	3227.9	3292.0	3244.5	3246.9
45°	9087.0	4903.6	3182.7	3201.7	3254.0	3289.7	3223.1	3137.5	3151.8	2968.8	2926.0
47.5°	9205.8	4832.3	3092.4	3073.4	3166.1	3227.9	3125.6	3002.0	2916.5	2735.8	2719.2
50°	9331.8	4806.1	2997.3	2945.0	3056.7	3116.1	2997.3	2842.8	2731.1	2633.6	2624.1
52.5°	9374.6	4803.8	2878.4	2790.5	2902.2	2985.4	2885.6	2728.7	2595.6	2500.5	2495.8
55°	9543.3	4872.7	2726.3	2579.0	2683.5	2854.7	2781.0	2555.2	2448.2	2405.4	2400.7
57.5°	9740.6	4884.6	2486.3	2348.4	2493.4	2695.4	2602.7	2407.8	2291.3	2239.1	2234.3
60°	9659.8	4592.2	2229.5	2172.5	2331.8	2545.7	2460.1	2291.3	2155.9	2105.9	2101.2
62.5°	7361.3	3242.1	2041.8	2020.4	2158.2	2329.4	2312.7	2136.8	2008.5	1972.8	1968.1
65°	4428.2	2277.1	1861.1	1858.7	1956.2	2120.2	2141.6	1999.0	1863.5	1813.6	1813.6
67.5°	2189.1	1742.3	1656.7	1644.8	1706.6	1823.1	1913.4	1796.9	1682.9	1635.3	1628.2
70°	1547.4	1535.5	1507.0	1473.7	1485.6	1533.1	1571.1	1473.7	1352.5	1304.9	1295.4
72.5°	1338.2	1340.6	1321.6	1295.4	1285.9	1252.6	1219.4	1148.1	1074.4	1024.5	1029.2
75°	1038.7	1043.5	1055.4	1045.8	1019.7	984.0	948.4	858.1	798.6	751.1	741.6
77.5°	606.1	629.9	667.9	658.4	663.2	613.2	599.0	511.0	456.4	423.1	416.0
80°	342.3	356.5	373.2	385.1	370.8	349.4	318.5	271.0	254.3	230.6	225.8
82.5°	206.8	221.1	228.2	237.7	232.9	204.4	180.6	149.7	135.5	123.6	121.2
85°	104.6	114.1	121.2	126.0	111.7	92.7	83.2	66.6	57.0	49.9	49.9
87.5°	26.1	28.5	33.3	28.5	26.1	11.9	9.5	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)