

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: P638984

Luminaire Tested: GWS-SA4F-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638984
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-SA4F-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22534.4 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

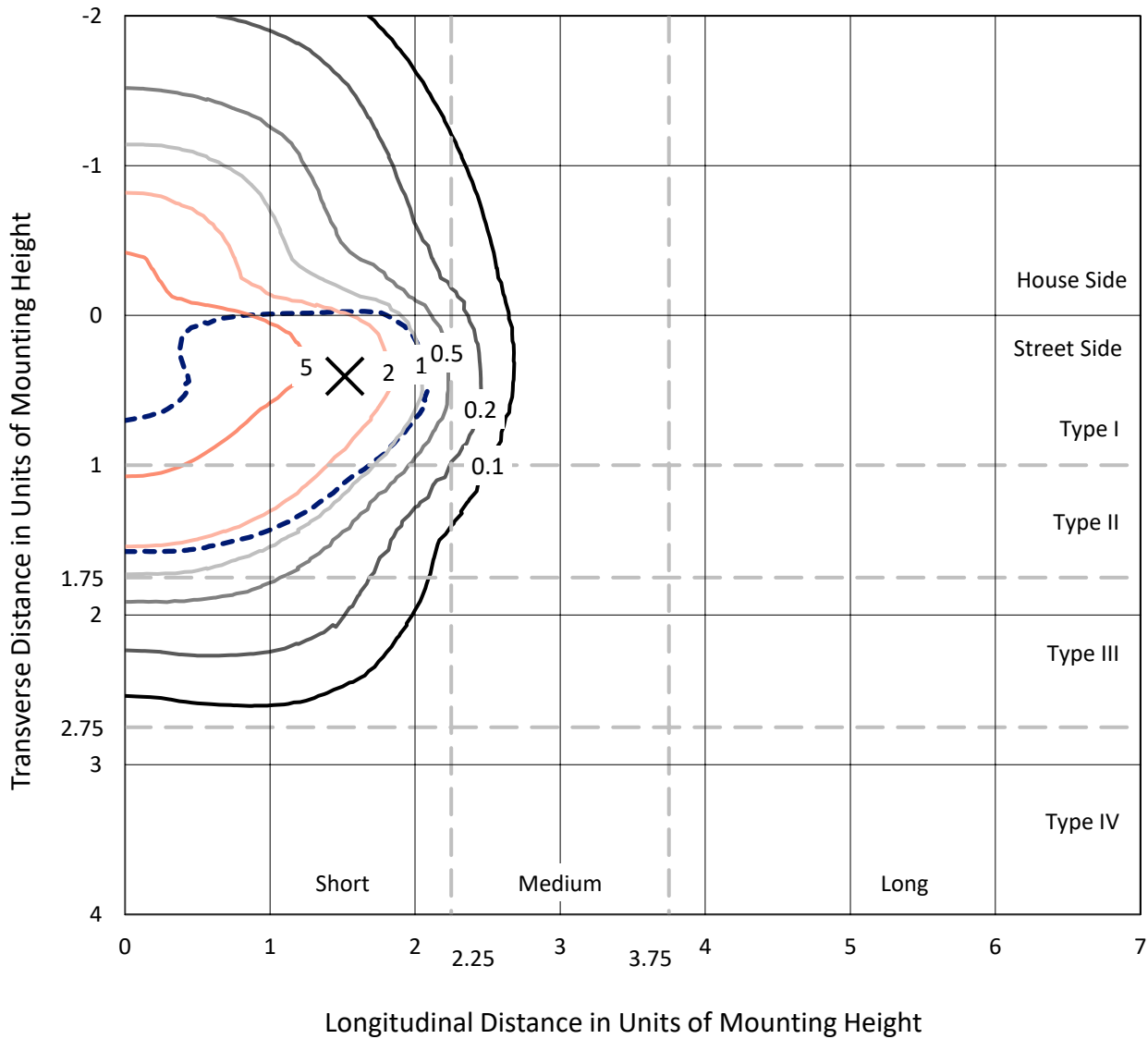
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

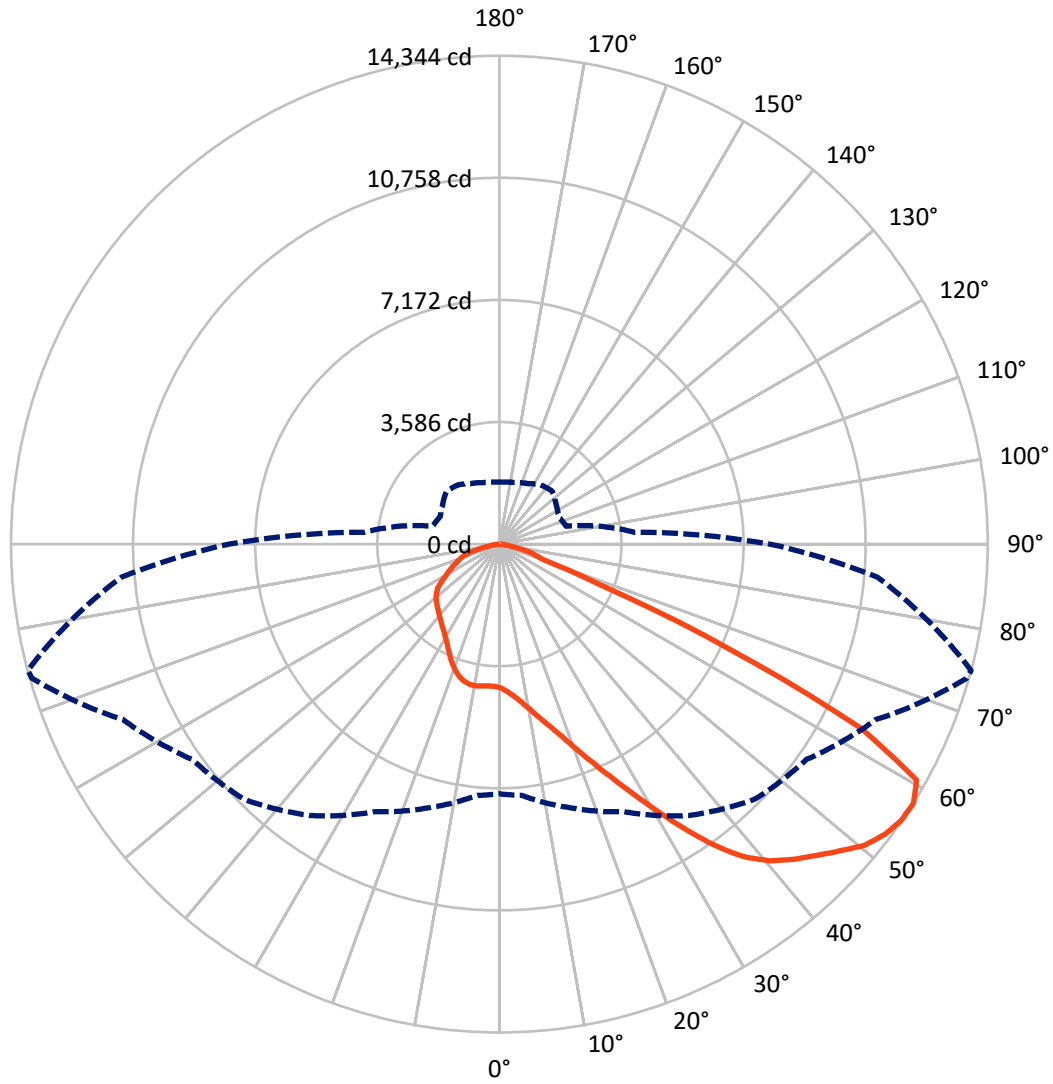
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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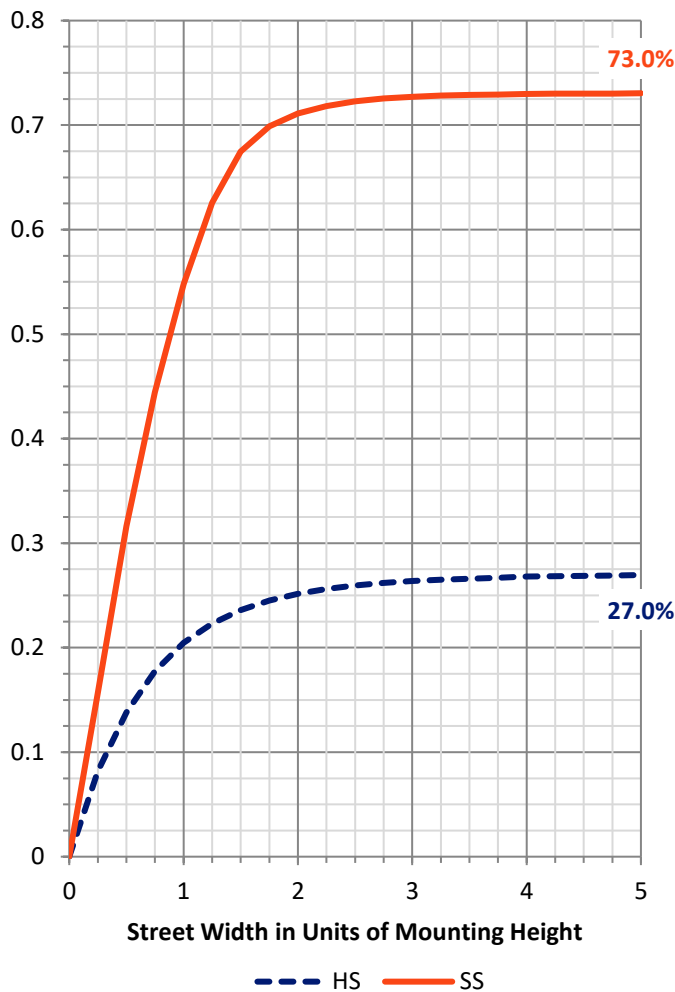
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6096.0	0.0	6096.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	16438.4	0.0	16438.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	22534.4	0.0	22534.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	1.9
10°-20°	1344.5	6.0
20°-30°	2384.5	10.6
30°-40°	3650.3	16.2
40°-50°	5082.7	22.6
50°-60°	5823.8	25.8
60°-70°	2992.4	13.3
70°-80°	753.4	3.3
80°-90°	80.5	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°	22534.4	100.0
0°-180°	22534.4	100.0

Coefficient of Utilization



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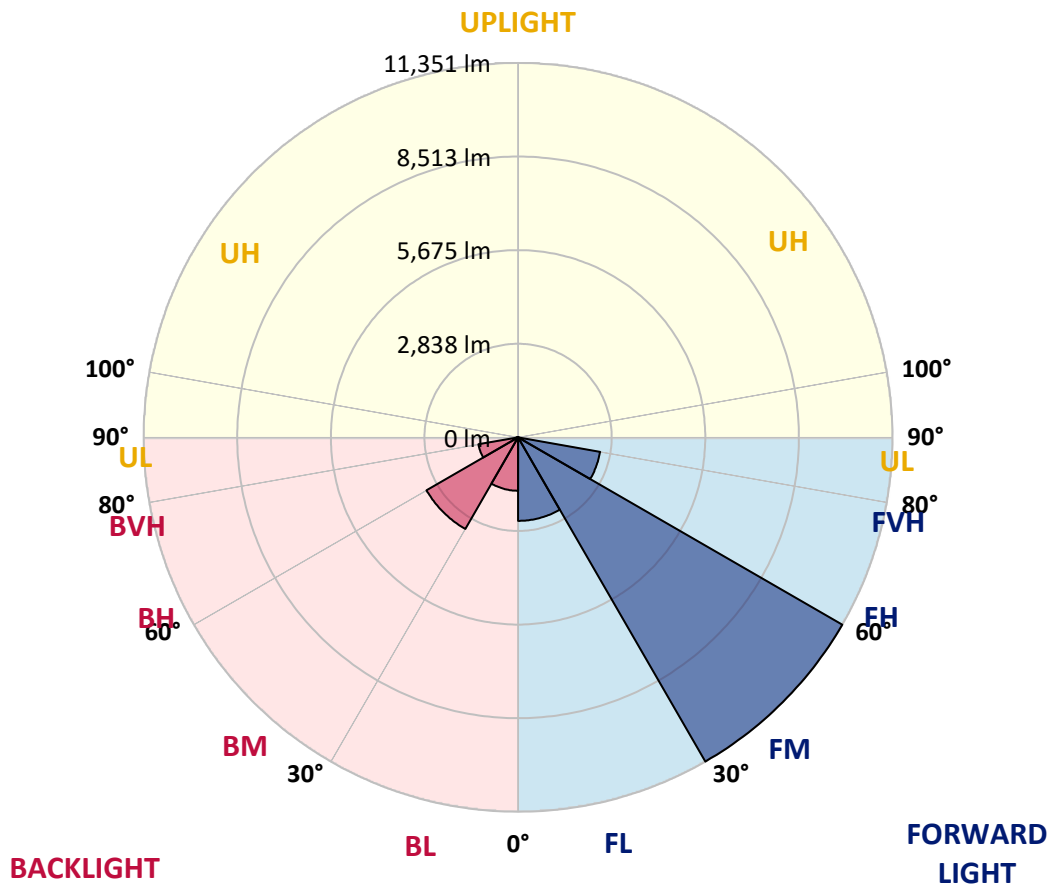
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2531.9	11.2			
FM (30°-60°)	11350.8	50.4			
FH (60°-80°)	2525.9	11.2			G2/5000
FVH (80°-90°)	29.8	0.1			G1/100
BL (0°-30°)	1619.5	7.2	B3/2500		
BM (30°-60°)	3206.0	14.2	B3/5000		
BH (60°-80°)	1219.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	50.7	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°	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2
2.5°	4534.0	4545.7	4534.0	4553.4	4514.7	4497.2	4454.6	4390.7	4340.3	4332.5	4276.3
5°	4886.7	4911.9	4896.4	4888.6	4836.3	4797.6	4733.6	4605.7	4501.1	4485.6	4375.2
7.5°	5113.4	5130.8	5130.8	5136.6	5117.3	5072.7	5004.9	4853.8	4706.5	4683.2	4516.6
10°	5189.0	5202.5	5227.7	5276.2	5314.9	5328.5	5283.9	5138.6	4958.4	4935.1	4702.6
12.5°	5206.4	5221.9	5260.7	5349.8	5456.4	5553.2	5561.0	5454.4	5252.9	5227.7	4917.7
15°	5239.3	5254.8	5307.2	5417.6	5574.6	5760.6	5874.9	5801.3	5578.4	5551.3	5161.8
17.5°	5235.5	5252.9	5330.4	5477.7	5688.9	5958.2	6179.1	6210.1	5979.5	5933.0	5438.9
20°	5225.8	5241.3	5324.6	5504.8	5766.4	6136.5	6535.6	6696.4	6448.4	6405.8	5762.5
22.5°	5303.3	5320.7	5384.7	5533.9	5807.1	6274.0	6865.0	7252.5	7004.5	6944.5	6134.5
25°	5477.7	5502.9	5541.6	5644.3	5880.7	6396.1	7202.2	7882.3	7628.4	7556.7	6539.5
27.5°	5747.0	5778.0	5832.3	5880.7	6045.4	6551.1	7537.4	8587.6	8333.7	8258.2	6967.7
30°	6076.4	6117.1	6186.8	6219.8	6332.2	6779.8	7901.6	9314.2	9166.9	9062.3	7450.2
32.5°	6531.7	6587.9	6653.8	6663.5	6731.3	7126.6	8262.0	10035.0	10033.0	9959.4	7998.5
35°	7124.7	7184.7	7198.3	7211.8	7244.8	7603.2	8698.0	10691.8	10945.7	10860.4	8595.3
37.5°	7771.8	7859.0	7880.3	7820.3	7866.8	8176.8	9188.2	11218.9	11740.1	11649.0	9172.7
40°	8463.6	8498.4	8556.6	8461.6	8519.7	8833.6	9668.8	11556.0	12333.0	12236.1	9628.1
42.5°	8959.6	9023.5	9110.7	9075.8	9108.8	9395.6	10005.9	11718.8	12755.4	12658.5	9955.5
45°	9498.2	9517.6	9573.8	9566.1	9585.4	9852.8	10248.1	11790.5	13133.2	13046.0	10234.5
47.5°	9967.2	9996.2	10033.0	9990.4	9947.8	10122.2	10445.7	11852.5	13569.2	13464.6	10527.1
50°	10418.6	10443.8	10488.4	10364.4	10205.5	10250.0	10542.6	11937.7	13978.0	13904.4	10757.7
52.5°	10501.9	10529.1	10738.3	10763.5	10560.1	10403.1	10713.1	12125.7	14218.3	14171.8	10841.0
55°	9453.7	9502.1	9918.7	10397.3	10899.2	10848.8	10986.3	12224.5	14313.3	14324.9	10990.2
57.5°	7337.8	7407.5	8016.0	8672.8	9728.8	10602.7	11021.2	12199.3	14280.3	14344.3	11143.3
60°	4813.1	4853.8	5574.6	6310.9	7405.6	8614.7	9864.5	11745.9	13987.7	14078.8	11104.5
62.5°	2906.4	2952.9	3532.3	4090.3	4735.6	5543.6	6690.6	9440.1	11724.6	11928.0	8893.7
65°	2028.7	2090.7	2598.4	3057.6	3280.4	3113.8	3388.9	5272.3	7304.9	7390.1	5435.0
67.5°	1470.7	1513.3	1929.9	2476.3	2722.4	2199.2	1676.0	2334.8	3181.6	3212.6	2241.8
70°	963.0	1011.4	1389.3	1885.3	2222.5	1782.6	1253.6	1263.3	1338.9	1354.4	1302.1
72.5°	529.0	558.0	858.4	1251.7	1313.7	1065.7	978.5	1050.2	1102.5	1102.5	1116.1
75°	273.2	298.4	350.7	412.7	498.0	583.2	705.3	811.9	868.1	871.9	866.1
77.5°	139.5	149.2	187.9	203.5	222.8	259.6	337.1	432.1	482.5	501.8	498.0
80°	65.9	69.8	79.4	93.0	114.3	145.3	182.1	217.0	248.0	251.9	273.2
82.5°	34.9	38.8	42.6	50.4	62.0	77.5	106.6	127.9	147.3	151.1	168.6
85°	13.6	15.5	17.4	19.4	27.1	32.9	44.6	60.1	73.6	73.6	87.2
87.5°	0.0	0.0	0.0	0.0	1.9	3.9	7.8	9.7	13.6	13.6	23.3
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°	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2	4220.2
2.5°	4262.8	4206.6	4181.4	4140.7	4107.8	4071.0	4041.9	4020.6	4007.0	3999.3	3991.5
5°	4332.5	4247.3	4179.5	4098.1	4041.9	3987.6	3943.1	3912.1	3896.6	3884.9	3877.2
7.5°	4441.0	4326.7	4198.8	4072.9	3974.1	3886.9	3830.7	3797.7	3776.4	3768.7	3762.9
10°	4590.2	4431.4	4220.2	4020.6	3873.3	3778.4	3739.6	3724.1	3726.1	3722.2	3720.2
12.5°	4758.8	4541.8	4214.3	3927.6	3764.8	3708.6	3710.6	3735.7	3764.8	3772.6	3774.5
15°	4940.9	4650.3	4158.1	3807.4	3679.6	3685.4	3735.7	3795.8	3850.1	3871.4	3875.3
17.5°	5138.6	4741.4	4055.5	3675.7	3609.8	3671.8	3764.8	3863.6	3943.1	3977.9	3987.6
20°	5359.5	4818.9	3910.1	3545.9	3543.9	3646.6	3782.2	3912.1	4012.8	4059.3	4067.1
22.5°	5593.9	4867.3	3731.9	3425.7	3476.1	3613.7	3768.7	3904.3	4010.9	4057.4	4067.1
25°	5830.3	4882.8	3536.2	3315.3	3406.3	3561.4	3702.8	3811.3	3912.1	3952.8	3960.5
27.5°	6051.2	4838.3	3350.2	3220.3	3342.4	3483.9	3578.8	3636.9	3706.7	3737.7	3743.5
30°	6276.0	4749.1	3193.2	3144.8	3270.7	3377.3	3419.9	3423.8	3450.9	3450.9	3454.8
32.5°	6502.7	4617.4	3055.6	3071.1	3181.6	3251.3	3257.2	3212.6	3179.6	3125.4	3123.5
35°	6764.3	4483.7	2943.3	2987.8	3077.0	3119.6	3102.1	3016.9	2937.4	2848.3	2844.4
37.5°	7006.5	4346.1	2848.3	2902.6	2958.8	2989.8	2949.1	2846.4	2780.5	2689.4	2675.9
40°	7206.0	4222.1	2757.2	2813.4	2840.6	2867.7	2801.8	2718.5	2728.2	2677.8	2675.9
42.5°	7322.3	4102.0	2672.0	2714.6	2732.1	2751.4	2693.3	2631.3	2683.6	2644.9	2646.8
45°	7407.5	3997.3	2594.5	2610.0	2652.6	2681.7	2627.4	2557.7	2569.3	2420.1	2385.2
47.5°	7504.4	3939.2	2520.9	2505.4	2580.9	2631.3	2548.0	2447.2	2377.5	2230.2	2216.6
50°	7607.1	3917.9	2443.3	2400.7	2491.8	2540.2	2443.3	2317.4	2226.3	2146.9	2139.1
52.5°	7642.0	3915.9	2346.5	2274.8	2365.8	2433.7	2352.3	2224.4	2115.9	2038.4	2034.5
55°	7779.6	3972.1	2222.5	2102.3	2187.6	2327.1	2267.0	2082.9	1995.8	1960.9	1957.0
57.5°	7940.4	3981.8	2026.8	1914.4	2032.6	2197.3	2121.7	1962.8	1867.9	1825.2	1821.4
60°	7874.5	3743.5	1817.5	1771.0	1900.8	2075.2	2005.4	1867.9	1757.4	1716.7	1712.9
62.5°	6000.8	2642.9	1664.4	1647.0	1759.4	1898.9	1885.3	1741.9	1637.3	1608.2	1604.4
65°	3609.8	1856.2	1517.2	1515.2	1594.7	1728.4	1745.8	1629.5	1519.1	1478.4	1478.4
67.5°	1784.6	1420.3	1350.5	1340.8	1391.2	1486.2	1559.8	1464.8	1371.8	1333.1	1327.3
70°	1261.4	1251.7	1228.5	1201.3	1211.0	1249.8	1280.8	1201.3	1102.5	1063.8	1056.0
72.5°	1090.9	1092.8	1077.3	1056.0	1048.3	1021.1	994.0	935.9	875.8	835.1	839.0
75°	846.7	850.6	860.3	852.6	831.2	802.2	773.1	699.5	651.0	612.3	604.5
77.5°	494.1	513.5	544.5	536.7	540.6	499.9	488.3	416.6	372.0	344.9	339.1
80°	279.0	290.6	304.2	313.9	302.3	284.8	259.6	220.9	207.3	187.9	184.1
82.5°	168.6	180.2	186.0	193.8	189.9	166.6	147.3	122.1	110.4	100.8	98.8
85°	85.3	93.0	98.8	102.7	91.1	75.6	67.8	54.3	46.5	40.7	40.7
87.5°	21.3	23.3	27.1	23.3	21.3	9.7	7.8	1.9	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)