

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: P638556

Luminaire Tested: GWS-SA4F-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638556
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-SA4F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21973 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

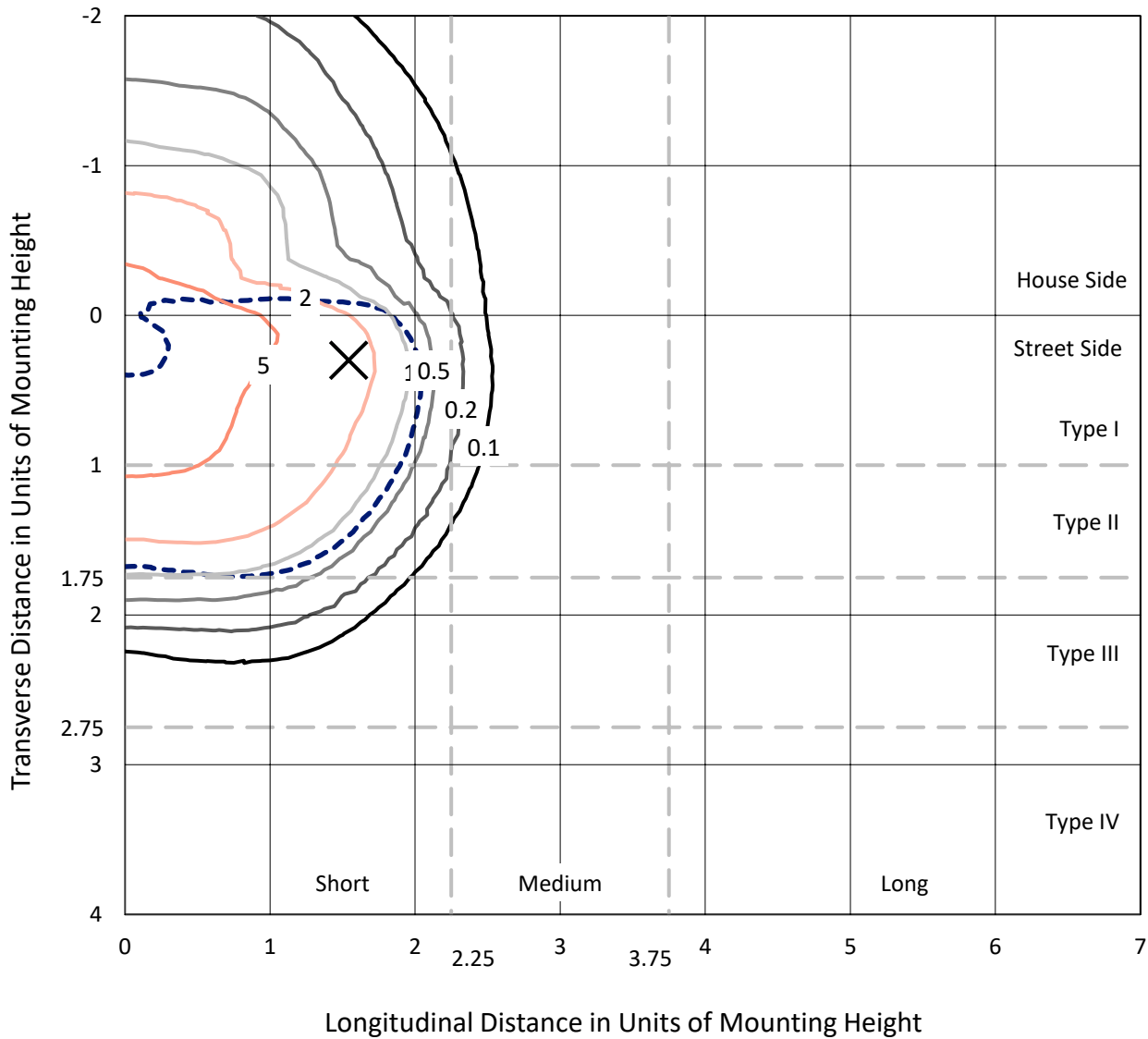
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

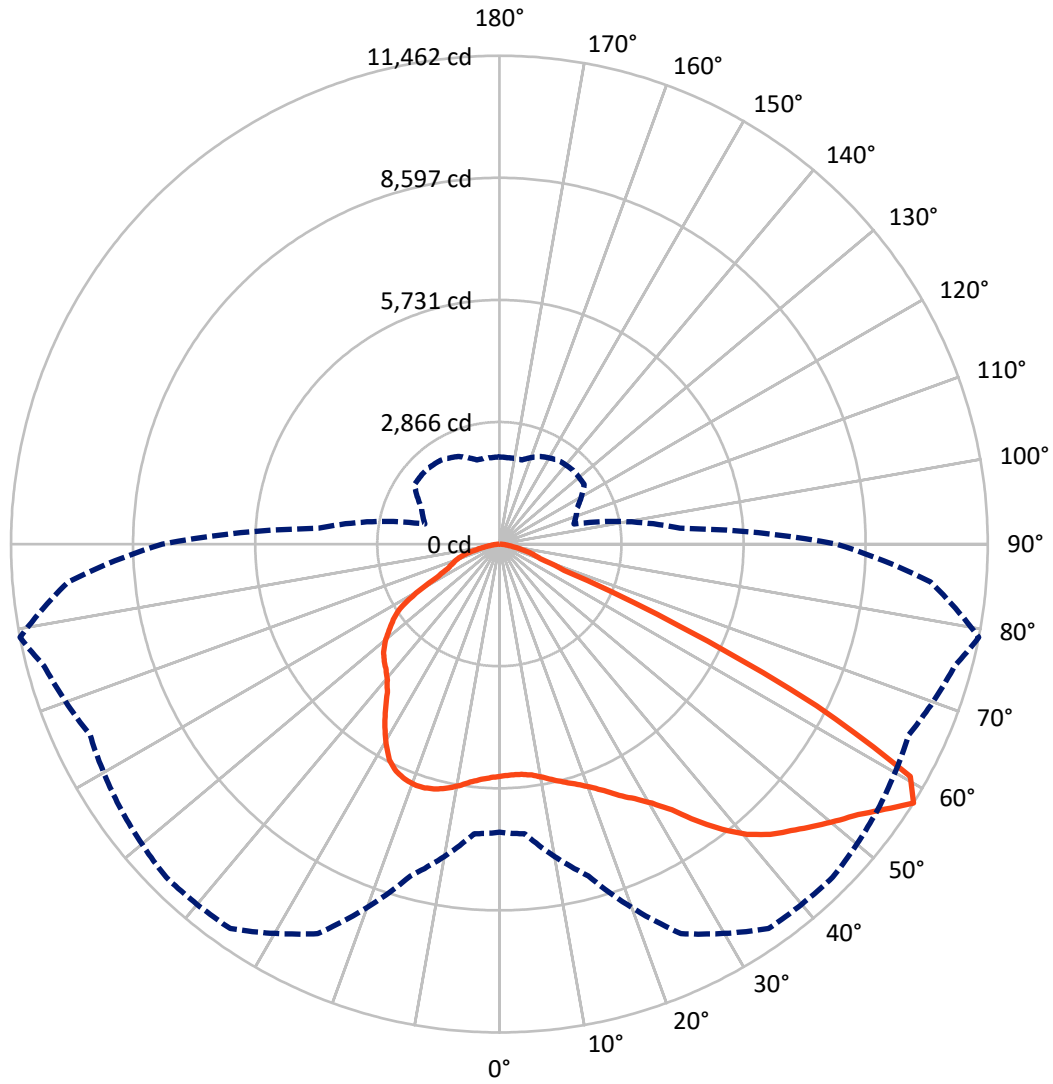
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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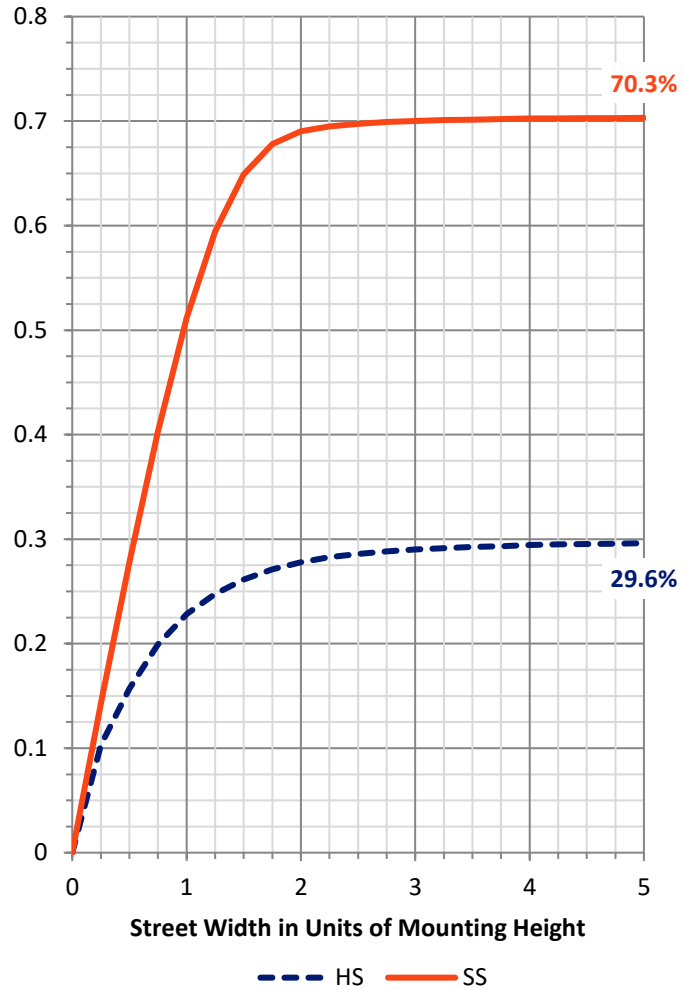
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6531.6	0.0	6531.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	15441.5	0.0	15441.5
	% Fixture	70.3	0.0	70.3
Total	Lumens	21973.0	0.0	21973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.3	2.3
10°-20°	1401.4	6.4
20°-30°	2375.5	10.8
30°-40°	3636.0	16.5
40°-50°	4848.2	22.1
50°-60°	5599.3	25.5
60°-70°	2909.6	13.2
70°-80°	618.5	2.8
80°-90°	80.1	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°	21973.0	100.0
0°-180°	21973.0	100.0

Coefficient of Utilization



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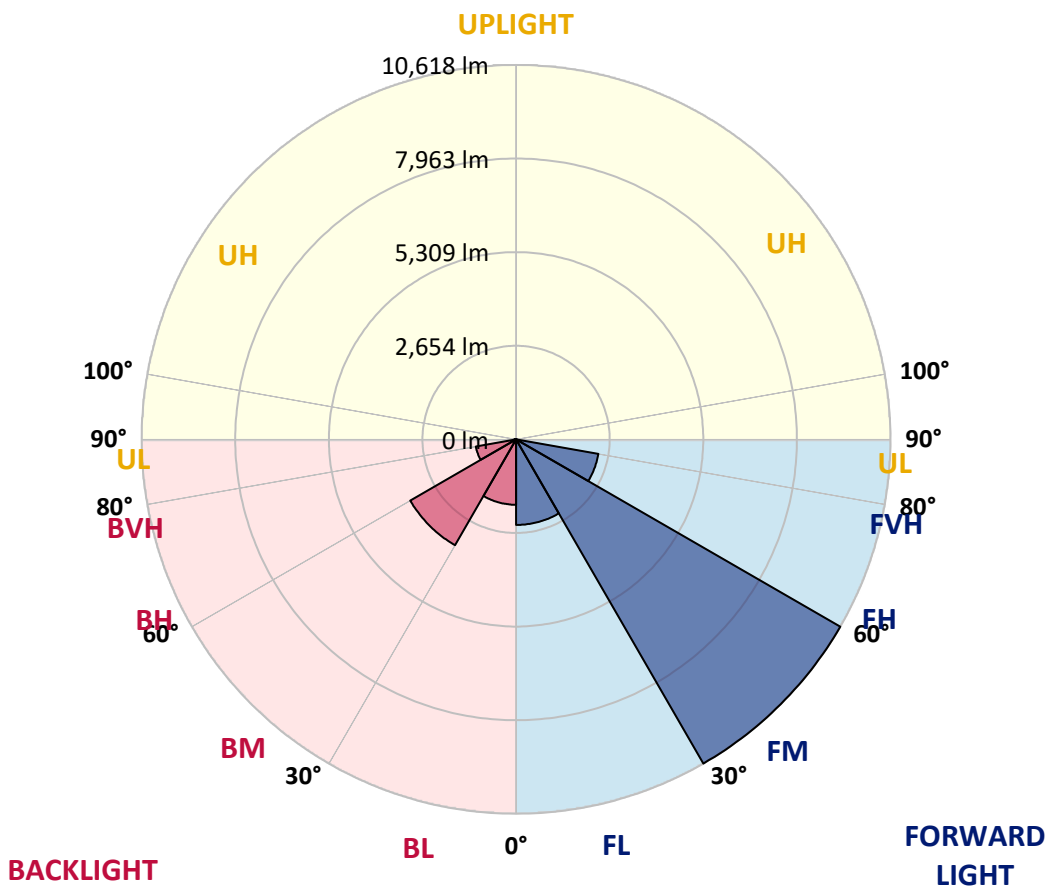
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.3	11.0			
FM (30°-60°)	10618.0	48.3			
FH (60°-80°)	2369.2	10.8			G2/5000
FVH (80°-90°)	27.9	0.1			G1/100
BL (0°-30°)	1854.9	8.4	B3/2500		
BM (30°-60°)	3465.6	15.8	B3/5000		
BH (60°-80°)	1158.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	52.2	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°	75°	79°	85°
0°	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4
2.5°	5197.5	5186.7	5190.3	5204.7	5258.6	5298.1	5339.4	5377.1	5413.1	5423.9	5432.8
5°	5012.4	4992.7	4998.1	5021.4	5084.3	5150.8	5224.4	5314.3	5400.5	5429.2	5467.0
7.5°	4881.3	4877.7	4886.7	4922.6	4989.1	5052.0	5147.2	5274.7	5423.9	5472.4	5538.8
10°	4707.0	4699.8	4735.8	4809.4	4919.0	5019.6	5132.8	5283.7	5492.1	5564.0	5666.4
12.5°	4568.7	4565.1	4602.8	4705.2	4845.4	5005.3	5161.6	5330.4	5583.8	5682.6	5808.3
15°	4649.5	4633.4	4635.2	4707.0	4832.8	5021.4	5233.4	5414.9	5675.4	5801.1	5962.8
17.5°	4884.9	4856.1	4834.6	4847.2	4919.0	5114.8	5343.0	5528.1	5781.4	5928.7	6126.3
20°	5210.1	5193.9	5134.6	5095.1	5111.3	5283.7	5515.5	5688.0	5919.7	6085.0	6297.0
22.5°	5646.6	5607.1	5526.3	5463.4	5414.9	5549.6	5763.4	5912.5	6111.9	6284.4	6505.4
25°	6187.4	6129.9	6002.4	5903.5	5799.3	5937.7	6128.1	6241.3	6376.0	6535.9	6746.1
27.5°	6739.0	6690.4	6548.5	6415.6	6286.2	6372.4	6598.8	6663.5	6649.1	6765.9	6945.6
30°	7326.4	7265.3	7130.6	6986.9	6819.8	6875.5	7078.5	7110.8	6958.1	7055.1	7177.3
32.5°	7946.2	7887.0	7770.2	7603.1	7414.5	7436.0	7491.7	7522.3	7376.7	7432.4	7525.9
35°	8576.8	8521.2	8402.6	8237.3	8099.0	7967.8	7827.7	7949.8	7865.4	7973.2	7966.0
37.5°	9153.5	9097.9	9024.2	8896.6	8659.5	8400.8	8077.4	8228.3	8359.5	8496.0	8472.6
40°	9543.4	9505.7	9523.6	9503.9	9198.5	8686.4	8199.6	8364.9	8722.4	8955.9	8943.3
42.5°	9879.4	9841.6	9945.8	10021.3	9662.0	8950.5	8258.9	8417.0	8954.1	9318.8	9300.9
45°	10028.5	10017.7	10190.2	10429.1	10086.0	9230.8	8411.6	8524.7	9130.2	9597.3	9529.0
47.5°	9850.6	9888.3	10227.9	10632.1	10438.1	9563.2	8724.2	8752.9	9360.2	9899.1	9706.9
50°	9496.7	9579.3	10037.5	10637.5	10695.0	9938.7	9157.1	9085.3	9669.2	10220.7	9800.3
52.5°	8981.1	9067.3	9814.7	10596.2	10842.3	10373.4	9733.8	9631.4	10059.0	10542.3	9816.5
55°	7797.1	7913.9	9304.5	10502.8	10986.1	10768.7	10384.2	10175.8	10562.1	10984.3	9976.4
57.5°	6764.1	6825.2	8061.2	10087.8	11014.8	11059.7	10847.7	10599.8	11061.5	11462.1	10156.0
60°	4963.9	4978.3	6090.4	8346.9	10132.7	10890.8	10810.0	10441.7	10824.4	11079.5	9333.2
62.5°	2804.5	2806.2	3693.8	5571.2	7569.0	8876.9	8927.2	8602.0	8280.4	8355.9	6496.4
65°	1052.8	1151.6	1687.0	2738.0	4363.9	5240.6	5449.0	5524.5	4989.1	4656.7	3483.6
67.5°	704.3	727.6	984.5	1408.5	1942.1	2242.1	2508.0	2515.2	1839.7	1640.3	1372.6
70°	537.2	560.5	774.3	1007.9	984.5	909.1	982.7	955.8	988.1	1015.1	1043.8
72.5°	400.6	424.0	600.1	711.4	591.1	582.1	659.3	733.0	801.3	830.0	874.9
75°	265.9	283.9	404.2	380.9	327.0	386.3	481.5	555.1	594.7	628.8	662.9
77.5°	168.9	181.5	215.6	174.3	181.5	226.4	280.3	346.7	384.5	418.6	436.6
80°	77.3	75.5	73.7	82.6	102.4	132.9	168.9	208.4	237.1	251.5	262.3
82.5°	30.5	34.1	37.7	44.9	55.7	71.9	95.2	122.2	145.5	149.1	158.1
85°	12.6	14.4	16.2	19.8	25.2	32.3	39.5	55.7	70.1	75.5	80.8
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	5.4	9.0	16.2	18.0	19.8
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°	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4	5445.4
2.5°	5481.3	5458.0	5497.5	5524.5	5549.6	5522.7	5513.7	5490.3	5486.7	5486.7	5499.3
5°	5531.7	5515.5	5556.8	5573.0	5571.2	5511.9	5476.0	5429.2	5405.9	5405.9	5409.5
7.5°	5621.5	5612.5	5635.9	5610.7	5553.2	5432.8	5314.3	5215.5	5149.0	5114.8	5125.6
10°	5770.6	5759.8	5740.1	5646.6	5481.3	5231.6	4989.1	4809.4	4701.6	4640.6	4644.1
12.5°	5916.1	5898.2	5828.1	5621.5	5281.9	4884.9	4566.9	4365.7	4247.1	4175.2	4159.1
15°	6076.0	6029.3	5878.4	5492.1	4956.7	4460.9	4128.5	3911.1	3783.6	3740.5	3738.7
17.5°	6228.7	6146.1	5873.0	5262.2	4566.9	4017.1	3683.0	3548.2	3526.7	3546.4	3551.8
20°	6383.2	6250.3	5813.7	4944.2	4103.4	3575.2	3402.7	3458.4	3539.3	3593.1	3605.7
22.5°	6543.1	6336.5	5679.0	4534.6	3614.7	3277.0	3348.8	3471.0	3571.6	3643.5	3650.6
25°	6722.8	6417.4	5477.8	4033.3	3223.1	3194.3	3336.2	3465.6	3573.4	3656.0	3670.4
27.5°	6825.2	6419.2	5195.7	3517.7	3043.4	3162.0	3305.7	3427.9	3535.7	3625.5	3641.7
30°	6925.8	6370.7	4748.3	3099.1	2991.3	3124.2	3253.6	3366.8	3469.2	3557.2	3577.0
32.5°	7067.7	6325.7	4232.7	2858.4	2960.8	3088.3	3194.3	3294.9	3374.0	3413.5	3424.3
35°	7243.8	6268.2	3684.8	2754.1	2941.0	3059.6	3153.0	3206.9	3104.5	3082.9	3106.3
37.5°	7489.9	6214.4	3138.6	2709.2	2928.4	3048.8	3131.4	2993.1	2867.3	2817.0	2835.0
40°	7755.8	6183.8	2768.5	2673.3	2933.8	3059.6	3041.6	2836.8	2655.3	2549.3	2545.7
42.5°	7982.2	6137.1	2531.4	2649.9	2948.2	3100.9	2919.4	2698.5	2429.0	2366.1	2367.9
45°	8134.9	6018.5	2405.6	2624.8	2960.8	3109.9	2861.9	2508.0	2315.8	2276.3	2274.5
47.5°	8197.8	5802.9	2324.8	2585.3	2959.0	3036.2	2745.2	2429.0	2236.7	2226.0	2233.1
50°	8156.4	5449.0	2242.1	2508.0	2915.8	2959.0	2610.4	2358.9	2182.8	2242.1	2285.2
52.5°	8003.7	4990.9	2143.3	2402.0	2838.6	2870.9	2542.2	2315.8	2143.3	2222.4	2256.5
55°	7964.2	4619.0	2017.6	2263.7	2723.6	2714.6	2470.3	2294.2	2116.4	2085.8	2091.2
57.5°	7912.1	4256.1	1809.2	2015.8	2432.6	2446.9	2402.0	2269.1	2046.3	2037.3	2046.3
60°	6873.7	3262.6	1613.3	1739.1	1997.8	2075.0	2324.8	2222.4	1933.1	1895.4	1893.6
62.5°	4489.6	1976.2	1435.5	1516.3	1627.7	1717.5	2120.0	2087.6	1809.2	1785.8	1802.0
65°	2414.6	1408.5	1306.1	1354.6	1415.7	1484.0	1757.0	1859.5	1634.9	1552.2	1554.0
67.5°	1234.2	1198.3	1209.1	1243.2	1289.9	1324.1	1417.5	1507.3	1394.1	1324.1	1322.3
70°	1056.4	1085.1	1101.3	1121.1	1151.6	1146.2	1155.2	1171.4	1162.4	1128.2	1126.5
72.5°	900.1	945.0	948.6	952.2	963.0	937.8	921.6	894.7	896.5	901.9	903.7
75°	684.5	727.6	738.4	733.0	743.8	711.4	689.9	662.9	630.6	625.2	628.8
77.5°	445.6	479.7	495.9	492.3	497.7	472.5	461.7	433.0	395.2	380.9	380.9
80°	269.5	289.2	301.8	305.4	310.8	292.8	274.9	249.7	233.6	217.4	217.4
82.5°	163.5	176.1	185.0	185.0	190.4	170.7	156.3	138.3	131.1	116.8	116.8
85°	82.6	91.6	95.2	93.4	89.8	73.7	68.3	59.3	55.7	48.5	48.5
87.5°	19.8	25.2	25.2	18.0	18.0	9.0	5.4	1.8	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)