

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: P638873

Luminaire Tested: GWS-SA4F-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20390.4 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

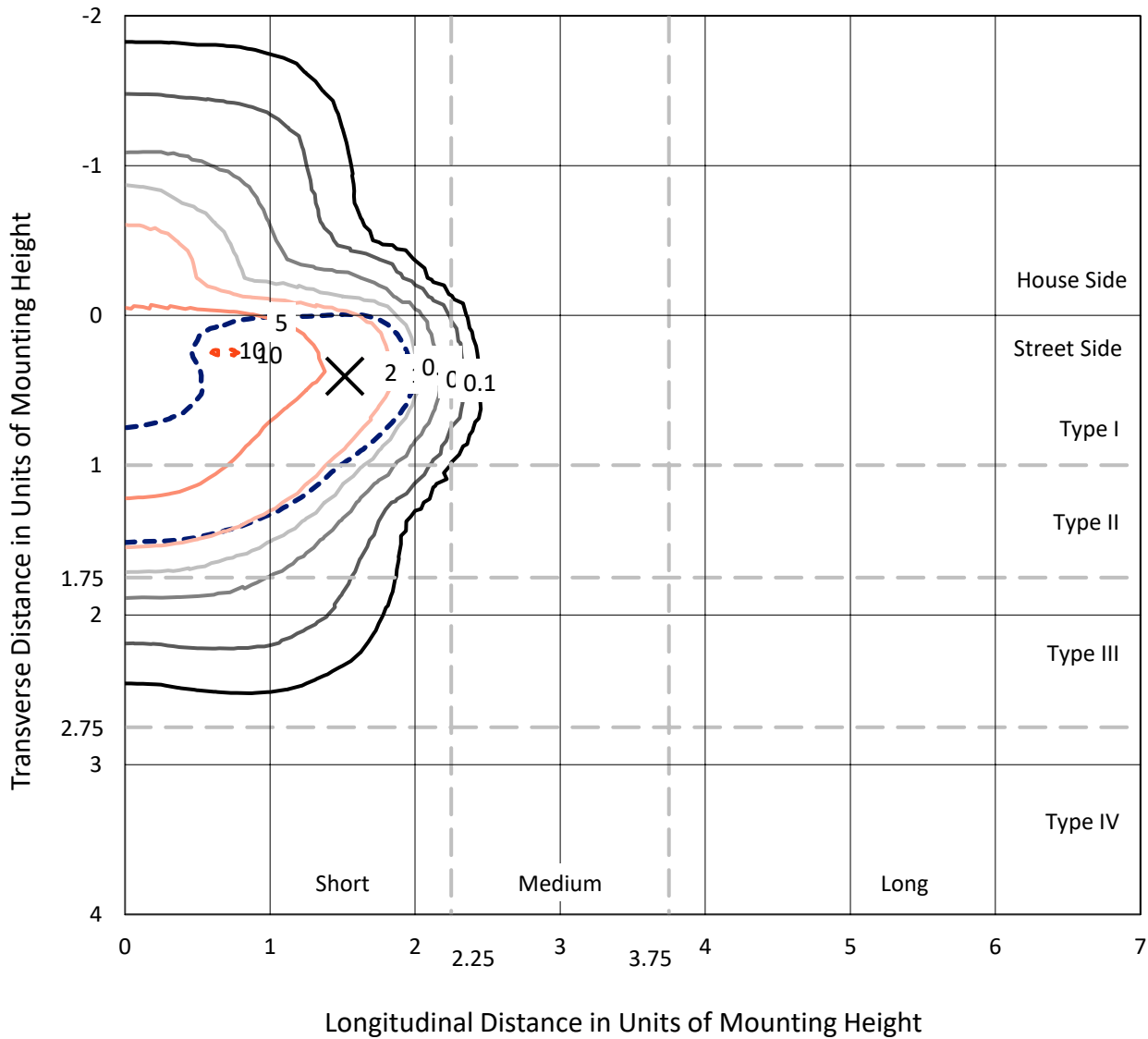
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

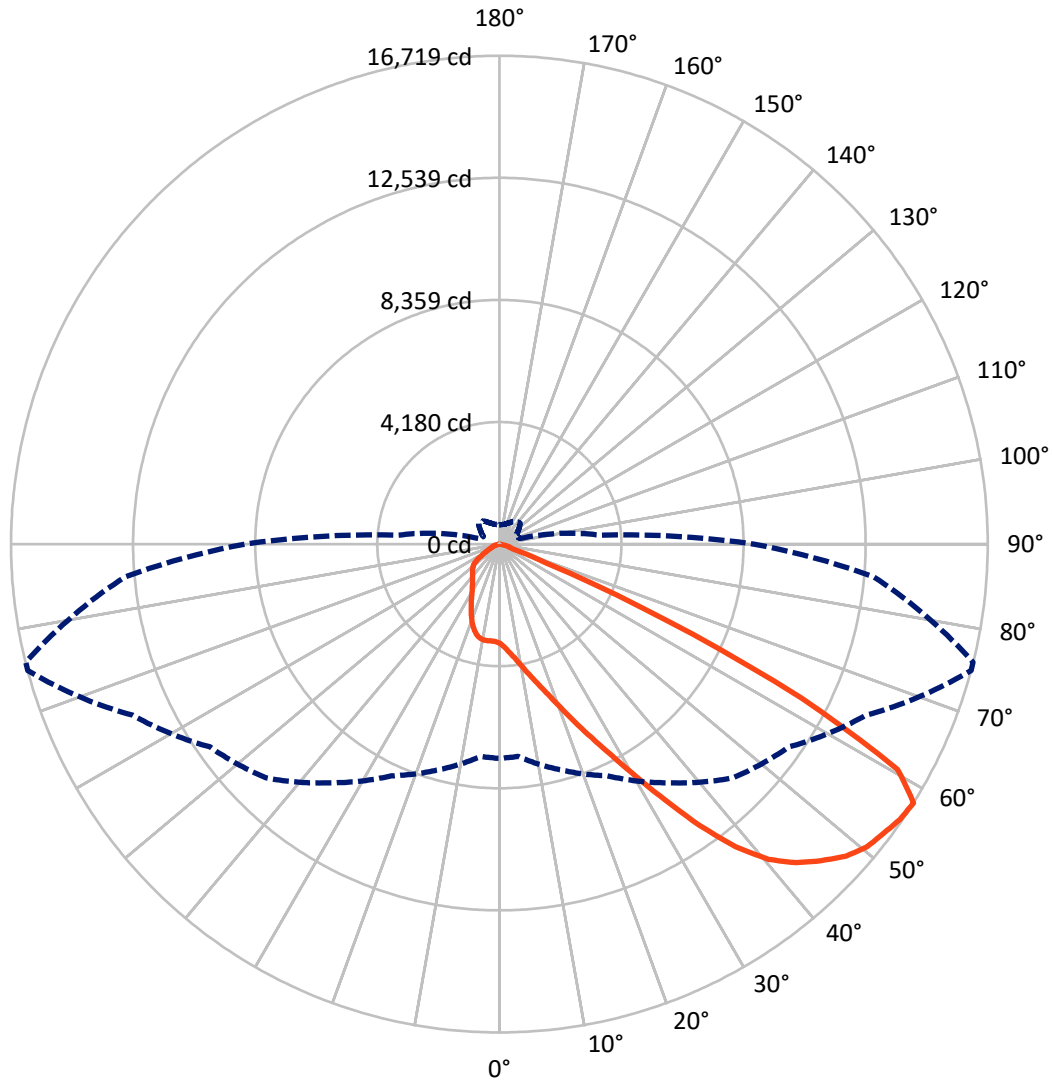
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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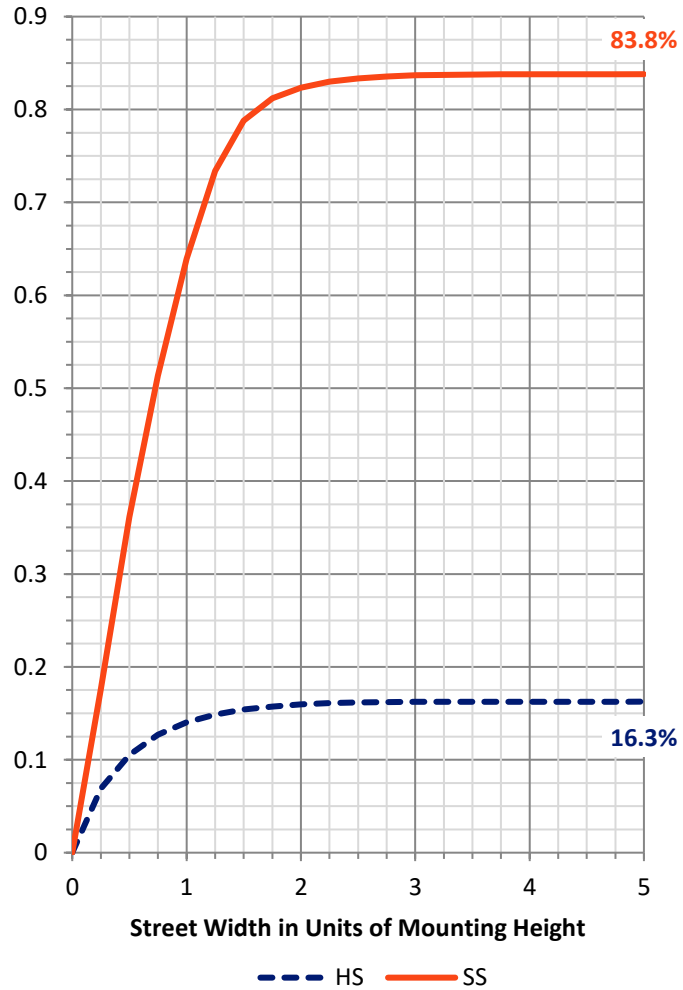
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3330.7	0.0	3330.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	17059.7	0.0	17059.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	20390.4	0.0	20390.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	1.7
10°-20°	1124.2	5.5
20°-30°	2058.6	10.1
30°-40°	3415.4	16.8
40°-50°	5216.2	25.6
50°-60°	5861.3	28.7
60°-70°	2161.9	10.6
70°-80°	206.6	1.0
80°-90°	0.2	0.0
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°	20390.4	100.0
0°-180°	20390.4	100.0

Coefficient of Utilization



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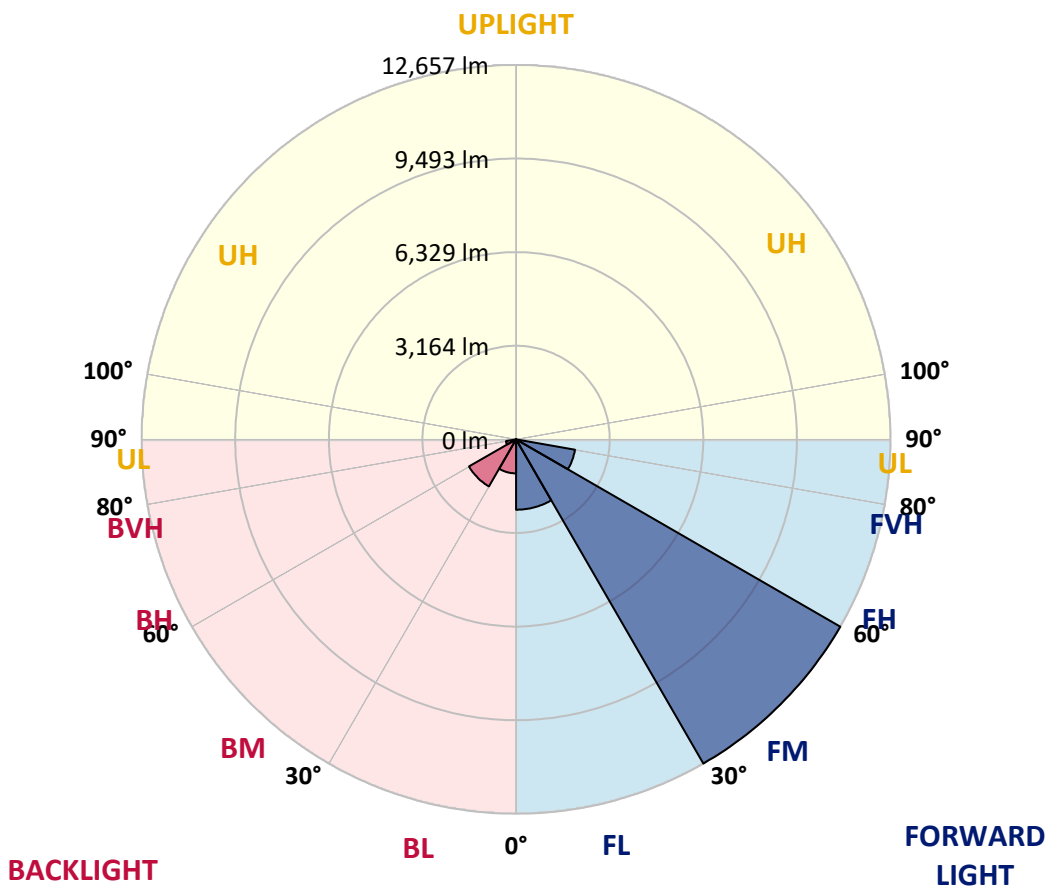
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.5	11.7			
FM (30°-60°)	12657.4	62.1			
FH (60°-80°)	2022.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1149.3	5.6	B3/2500		
BM (30°-60°)	1835.5	9.0	B2/2500		
BH (60°-80°)	345.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8
2.5°	3799.5	3838.9	3826.6	3801.9	3787.2	3735.5	3703.5	3610.0	3543.6	3536.2	3474.7
5°	4279.3	4272.0	4262.1	4232.6	4208.0	4126.8	4030.8	3873.3	3733.0	3715.8	3585.4
7.5°	4542.6	4547.6	4552.5	4547.6	4530.3	4468.8	4363.0	4178.4	3964.4	3949.6	3742.9
10°	4650.9	4660.8	4685.4	4732.1	4774.0	4769.0	4707.5	4518.0	4254.7	4230.1	3952.1
12.5°	4702.6	4714.9	4754.3	4842.9	4956.1	5044.7	5054.5	4884.7	4594.3	4555.0	4200.6
15°	4774.0	4786.3	4835.5	4951.1	5116.0	5290.7	5403.9	5295.7	4970.8	4929.0	4473.7
17.5°	4806.0	4823.2	4894.5	5047.1	5261.2	5529.4	5785.4	5775.5	5416.2	5384.2	4791.2
20°	4867.5	4879.8	4943.8	5108.6	5367.0	5753.4	6184.0	6339.0	5960.1	5913.3	5175.1
22.5°	5061.9	5066.8	5096.3	5199.7	5440.8	5915.8	6590.0	6996.1	6602.3	6540.8	5605.7
25°	5379.3	5376.9	5389.2	5406.4	5583.6	6080.7	6981.3	7736.8	7338.1	7271.7	6093.0
27.5°	5782.9	5782.9	5812.4	5763.2	5834.6	6284.9	7367.7	8588.2	8194.5	8101.0	6627.0
30°	6257.8	6255.4	6324.3	6245.5	6267.7	6607.3	7783.5	9515.9	9228.0	9112.4	7242.2
32.5°	6902.6	6887.8	6966.5	6858.3	6784.4	7094.5	8290.5	10485.5	10465.8	10288.6	8014.8
35°	7717.1	7692.5	7717.1	7611.3	7478.4	7776.1	8954.9	11452.6	11838.9	11651.9	8935.2
37.5°	8526.7	8605.4	8632.5	8450.4	8342.1	8639.9	9754.6	12318.8	13150.6	12956.1	9892.4
40°	9481.5	9456.9	9550.4	9346.1	9277.2	9607.0	10537.2	12963.5	14189.0	14004.5	10743.9
42.5°	10185.3	10229.6	10345.2	10232.0	10177.9	10488.0	11194.2	13340.0	14910.0	14727.9	11351.7
45°	11029.3	11061.3	11105.6	11012.1	10955.5	11260.7	11669.1	13504.9	15458.8	15261.9	11760.2
47.5°	11942.3	11966.9	11966.9	11775.0	11592.9	11718.4	11986.6	13598.4	15963.3	15773.8	12062.9
50°	12596.9	12609.2	12717.4	12582.1	12185.9	11991.5	12131.8	13689.5	16297.9	16120.7	12161.3
52.5°	12016.1	12001.4	12358.2	12638.7	12744.5	12358.2	12382.8	13822.4	16460.3	16307.8	12240.1
55°	10118.8	10094.2	10596.2	11277.9	12210.5	12705.1	12685.5	13901.1	16640.0	16546.5	12525.5
57.5°	7335.7	7293.8	7992.7	8750.6	9973.6	11314.8	12102.2	13856.8	16718.7	16711.3	12857.7
60°	4409.8	4375.3	5034.8	5832.1	6777.1	8125.6	9432.3	12412.3	15665.5	15680.3	11994.0
62.5°	2714.3	2746.3	3341.8	3747.8	4099.7	4505.7	5261.2	8349.5	11605.2	11701.1	8428.3
65°	1825.9	1850.5	2401.7	2913.6	2913.6	2382.1	2044.9	3991.4	6191.4	6029.0	3986.5
67.5°	1225.5	1252.6	1688.1	2286.1	2372.2	1661.0	829.3	1191.0	1725.0	1673.3	986.8
70°	721.0	750.5	1124.6	1567.5	1727.5	1156.6	553.7	504.5	489.7	474.9	383.9
72.5°	322.4	334.7	573.4	797.3	728.4	487.2	391.3	403.6	381.4	374.0	312.5
75°	98.4	103.4	147.6	172.3	174.7	174.7	236.2	317.4	300.2	302.7	241.2
77.5°	24.6	24.6	39.4	36.9	19.7	17.2	44.3	71.4	73.8	66.4	49.2
80°	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8	3400.8
2.5°	3447.6	3383.6	3341.8	3282.7	3240.9	3196.6	3157.2	3125.2	3108.0	3103.1	3105.5
5°	3526.3	3425.4	3327.0	3213.8	3135.1	3061.2	3002.2	2955.4	2933.3	2925.9	2925.9
7.5°	3646.9	3506.6	3331.9	3154.8	3021.9	2906.2	2837.3	2785.6	2765.9	2761.0	2746.3
10°	3804.4	3612.5	3324.5	3048.9	2861.9	2741.3	2692.1	2677.4	2684.7	2687.2	2684.7
12.5°	3993.9	3723.2	3277.8	2893.9	2692.1	2618.3	2623.2	2662.6	2706.9	2729.0	2734.0
15°	4195.7	3824.1	3172.0	2709.3	2546.9	2544.5	2615.8	2706.9	2793.0	2829.9	2839.8
17.5°	4422.1	3905.3	3009.6	2512.5	2421.4	2492.8	2620.8	2761.0	2876.7	2938.2	2950.5
20°	4670.6	3971.7	2802.9	2327.9	2310.7	2438.7	2615.8	2788.1	2930.8	2999.7	3012.0
22.5°	4929.0	4018.5	2564.2	2158.1	2209.8	2377.1	2569.1	2736.4	2871.8	2950.5	2960.4
25°	5224.3	4023.4	2320.5	2015.4	2116.3	2293.5	2455.9	2593.7	2706.9	2775.8	2783.2
27.5°	5482.7	3964.4	2104.0	1899.7	2030.2	2190.1	2298.4	2374.7	2453.4	2492.8	2495.3
30°	5780.4	3861.0	1899.7	1806.2	1941.6	2062.2	2116.3	2133.5	2140.9	2148.3	2138.4
32.5°	6134.8	3735.5	1747.2	1715.2	1840.7	1921.9	1936.7	1902.2	1860.4	1801.3	1786.5
35°	6570.4	3622.3	1621.7	1626.6	1729.9	1779.2	1766.9	1693.0	1611.8	1540.5	1528.2
37.5°	7042.8	3526.3	1525.7	1540.5	1609.4	1643.8	1606.9	1525.7	1488.8	1427.3	1429.7
40°	7461.2	3447.6	1439.6	1454.3	1486.3	1518.3	1459.3	1405.1	1474.0	1469.1	1474.0
42.5°	7758.9	3381.1	1365.7	1358.4	1380.5	1402.7	1358.4	1331.3	1447.0	1415.0	1432.2
45°	7933.6	3319.6	1304.2	1259.9	1294.4	1333.8	1304.2	1269.8	1309.1	1161.5	1149.2
47.5°	8051.8	3285.2	1250.1	1164.0	1225.5	1294.4	1232.9	1149.2	1092.6	964.6	954.8
50°	8064.1	3268.0	1186.1	1065.5	1144.3	1218.1	1146.7	1031.1	949.9	893.3	885.9
52.5°	8128.0	3302.4	1097.5	940.0	1026.2	1144.3	1095.1	979.4	868.7	819.4	809.6
55°	8413.5	3447.6	949.9	767.8	893.3	1087.7	1053.2	873.6	767.8	738.2	730.9
57.5°	8708.8	3477.1	748.1	607.8	777.6	1006.5	962.2	804.7	701.3	666.9	659.5
60°	7963.2	2864.4	561.1	502.0	686.6	930.2	890.8	762.9	642.3	600.4	593.1
62.5°	5231.7	1547.8	445.4	425.7	578.3	787.5	812.1	689.0	573.4	529.1	526.6
65°	2411.6	718.6	342.1	337.1	452.8	627.5	698.9	602.9	484.8	445.4	445.4
67.5°	657.0	356.8	268.2	248.5	307.6	420.8	509.4	450.3	344.5	297.8	295.3
70°	327.3	287.9	241.2	214.1	221.5	260.8	300.2	251.0	174.7	142.7	140.3
72.5°	268.2	236.2	204.2	182.1	167.3	160.0	155.0	125.5	81.2	61.5	59.1
75°	199.3	169.8	145.2	118.1	100.9	93.5	83.7	61.5	34.5	19.7	17.2
77.5°	44.3	41.8	39.4	29.5	27.1	22.1	17.2	12.3	4.9	0.0	0.0
80°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)