

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: P638847

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 25853.4 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

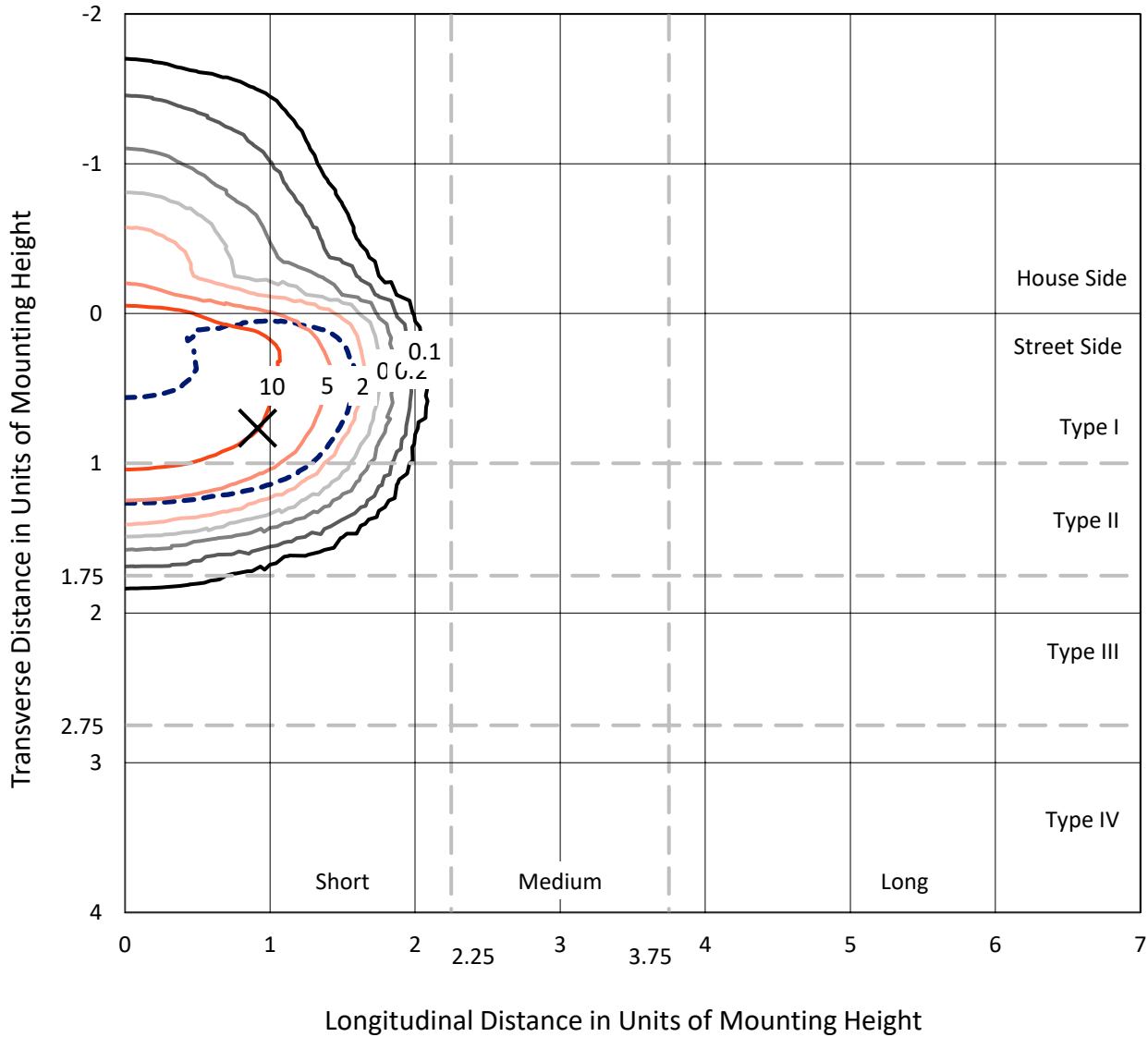
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

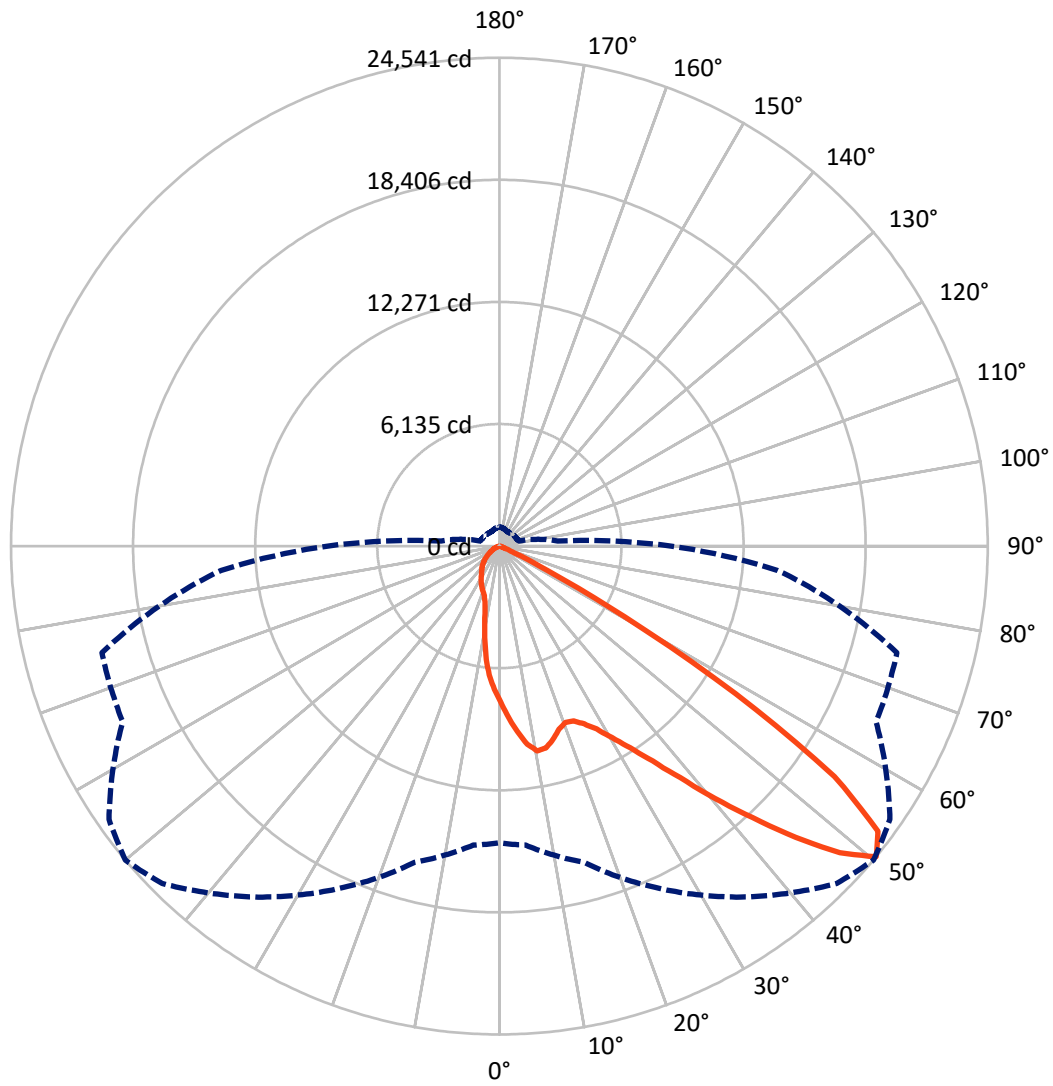
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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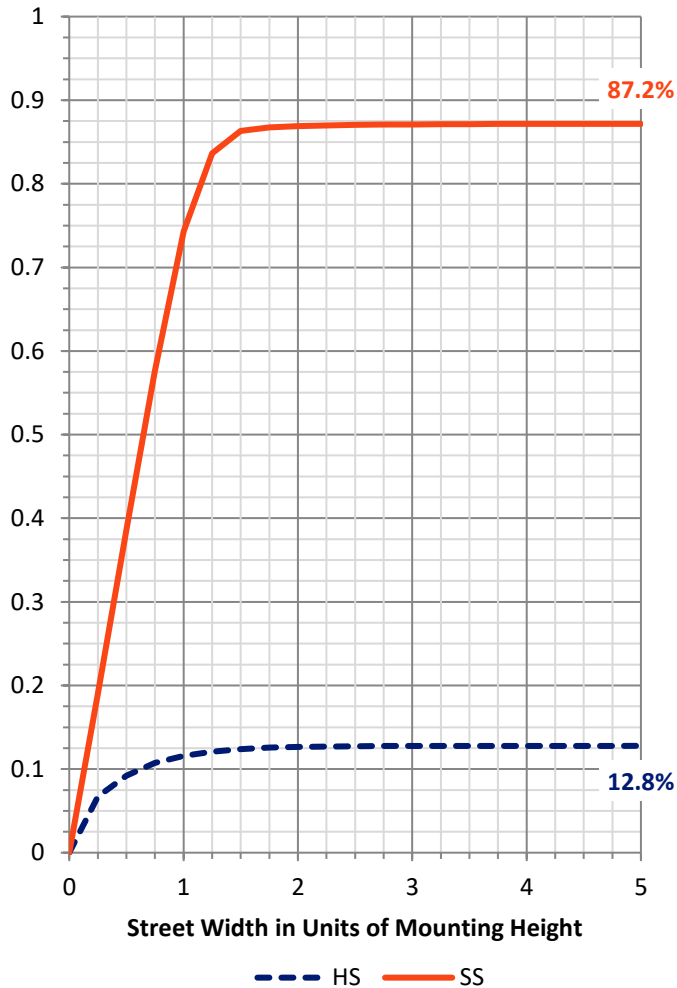
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3321.8	0.0	3321.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	22531.6	0.0	22531.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	25853.4	0.0	25853.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.6	2.8
10°-20°	1874.7	7.3
20°-30°	3093.9	12.0
30°-40°	5105.5	19.7
40°-50°	8078.1	31.2
50°-60°	6116.1	23.7
60°-70°	765.5	3.0
70°-80°	86.6	0.3
80°-90°	6.6	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°	25853.4	100.0
0°-180°	25853.4	100.0

Coefficient of Utilization



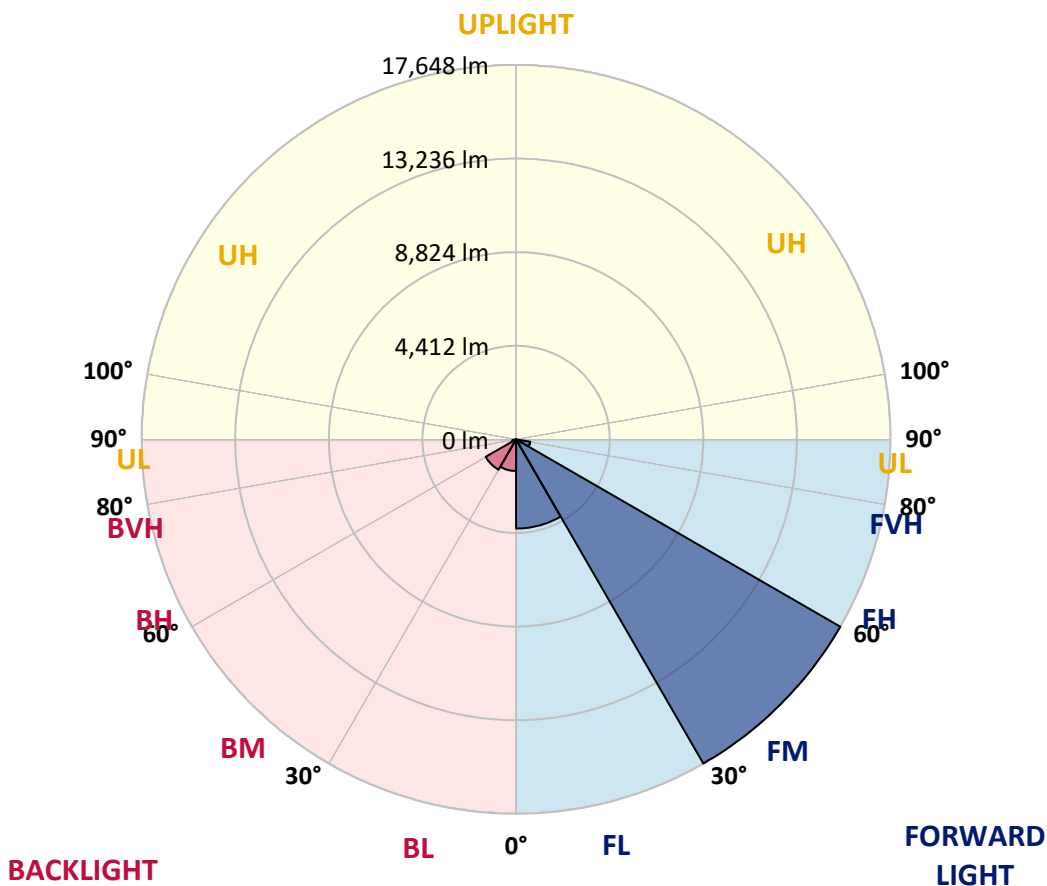
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4204.1	16.3			
FM (30°-60°)	17647.7	68.3			
FH (60°-80°)	676.8	2.6			G1/1800
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	1490.9	5.8	B3/2500		
BM (30°-60°)	1652.0	6.4	B2/2500		
BH (60°-80°)	175.3	0.7	B1/500		G1/500
BVH (80°-90°)	3.5	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6
2.5°	8925.1	8996.5	8976.8	8883.3	8782.4	8711.0	8600.3	8565.9	8314.9	8140.1	7955.6
5°	10002.9	10025.1	10000.5	9887.3	9710.1	9540.3	9358.2	9252.4	8831.6	8452.7	8066.3
7.5°	10261.3	10234.2	10281.0	10337.6	10313.0	10239.2	10047.2	9931.6	9429.6	8811.9	8226.3
10°	9454.2	9392.7	9567.4	9860.2	10167.8	10514.8	10465.5	10475.4	10012.8	9264.7	8435.4
12.5°	8383.8	8359.2	8489.6	8829.2	9432.0	10219.5	10409.0	10726.4	10546.8	9754.4	8674.1
15°	7913.8	7926.1	8004.8	8218.9	8652.0	9631.4	10086.6	10659.9	11024.1	10229.3	8937.4
17.5°	7985.1	8029.4	8027.0	8098.3	8361.6	9146.6	9678.1	10450.8	11393.3	10775.6	9240.1
20°	8469.9	8514.2	8447.7	8393.6	8482.2	9023.6	9464.0	10239.2	11641.8	11326.8	9560.0
22.5°	9195.8	9247.5	9090.0	8935.0	8878.4	9225.3	9545.2	10153.0	11831.3	11831.3	9845.4
25°	10074.3	10145.7	9902.0	9626.4	9468.9	9651.0	9892.2	10347.4	12025.7	12284.0	10039.8
27.5°	11056.1	11058.6	10849.4	10539.4	10244.1	10266.2	10411.4	10785.4	12239.7	12771.3	10192.4
30°	12161.0	12168.4	11890.3	11518.7	11147.2	11046.3	11169.3	11452.3	12685.1	13384.0	10404.0
32.5°	13588.2	13622.7	13224.0	12677.8	12195.5	12006.0	12077.3	12375.1	13393.8	14151.7	10721.5
35°	15517.5	15554.4	14966.3	14245.3	13477.5	13192.1	13263.4	13563.6	14420.0	15241.9	11228.4
37.5°	17422.1	17471.3	16875.8	16204.0	15150.8	14678.3	14752.2	15037.6	15960.4	16747.8	12040.4
40°	18738.6	18805.0	18620.5	18167.7	17190.8	16570.7	16659.2	16762.6	17655.8	18549.1	13093.6
42.5°	19432.5	19526.0	19604.8	19836.1	19321.8	18802.6	18652.4	18659.8	19380.8	20384.8	14188.7
45°	19474.3	19565.4	19968.9	20862.2	21253.5	21145.2	20872.0	20687.5	20697.3	21607.8	14872.7
47.5°	18120.9	18290.7	19046.2	20795.8	22267.3	23165.5	23027.7	22589.6	21251.0	21689.0	14798.9
50°	14914.6	15081.9	16455.0	18972.3	21529.1	23972.6	24541.0	23952.9	20889.3	20677.6	14038.6
52.5°	10832.2	10849.4	11740.2	14680.8	18536.8	22483.8	23822.5	23765.9	20338.1	19452.2	13000.1
55°	5145.4	5083.9	6085.4	8285.3	12820.5	18184.9	20441.4	21081.2	19555.5	18566.3	12195.5
57.5°	1498.6	1528.1	1973.5	3233.4	6412.7	11622.1	13999.2	15190.2	16051.4	15264.0	9459.1
60°	671.8	674.2	750.5	984.3	2135.9	5406.3	7237.1	8711.0	9596.9	8893.1	4692.6
62.5°	487.2	489.7	519.2	556.1	725.9	1830.8	2714.2	3617.3	3683.7	2411.5	1188.5
65°	406.0	406.0	410.9	410.9	435.6	654.6	824.3	1063.0	895.7	664.4	465.1
67.5°	327.3	329.7	334.7	334.7	327.3	327.3	354.3	388.8	415.9	514.3	428.2
70°	255.9	253.5	253.5	255.9	248.5	211.6	228.8	260.8	285.4	401.1	371.6
72.5°	199.3	201.8	199.3	189.5	172.3	125.5	135.3	169.8	182.1	251.0	251.0
75°	150.1	152.6	142.7	108.3	71.4	39.4	51.7	83.7	105.8	123.0	91.0
77.5°	19.7	19.7	14.8	14.8	12.3	14.8	14.8	19.7	29.5	29.5	22.1
80°	2.5	2.5	2.5	4.9	7.4	9.8	9.8	9.8	9.8	12.3	12.3
82.5°	2.5	2.5	2.5	2.5	7.4	7.4	9.8	9.8	9.8	9.8	9.8
85°	0.0	0.0	0.0	2.5	4.9	7.4	7.4	9.8	9.8	9.8	9.8
87.5°	0.0	0.0	0.0	2.5	4.9	7.4	7.4	7.4	9.8	9.8	9.8
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°	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6	7832.6
2.5°	7844.9	7702.1	7529.9	7411.8	7244.4	7133.7	6976.2	6870.4	6779.4	6708.0	6747.4
5°	7847.3	7620.9	7269.0	6968.8	6641.6	6341.3	6019.0	5765.5	5536.7	5433.3	5489.9
7.5°	7896.5	7571.7	7032.8	6498.8	5871.3	5251.2	4670.5	4198.0	3964.3	3853.5	3888.0
10°	7992.5	7549.6	6769.5	5883.6	4864.9	4018.4	3454.9	3135.0	3004.6	2935.7	2948.0
12.5°	8081.1	7534.8	6427.5	5074.1	3838.8	3117.8	2824.9	2780.6	2807.7	2810.2	2807.7
15°	8201.7	7507.7	6004.2	4242.3	3071.0	2694.5	2701.9	2765.9	2829.9	2849.5	2844.6
17.5°	8329.6	7465.9	5457.9	3445.0	2605.9	2571.5	2657.6	2743.7	2807.7	2817.6	2820.0
20°	8462.5	7379.8	4835.4	2812.6	2389.4	2478.0	2573.9	2637.9	2684.7	2699.4	2704.4
22.5°	8524.0	7197.7	4116.8	2359.9	2244.2	2362.3	2433.7	2517.3	2532.1	2478.0	2487.8
25°	8492.0	6890.1	3415.5	2054.7	2099.0	2217.1	2322.9	2281.1	2219.6	2180.2	2192.5
27.5°	8391.1	6481.6	2729.0	1830.8	1944.0	2094.1	2106.4	2059.6	2049.8	2017.8	2027.7
30°	8282.9	6011.6	2195.0	1651.2	1786.5	1944.0	1907.1	1924.3	1926.8	1889.9	1902.2
32.5°	8216.4	5519.5	1747.1	1530.6	1685.6	1715.1	1789.0	1823.4	1825.9	1739.7	1754.5
35°	8238.6	5034.7	1478.9	1432.2	1592.1	1584.7	1688.1	1707.8	1565.0	1446.9	1459.2
37.5°	8418.2	4586.8	1326.3	1355.9	1429.7	1486.3	1565.0	1434.6	1402.6	1348.5	1355.9
40°	8752.9	4205.4	1235.3	1309.1	1319.0	1410.0	1289.4	1306.7	1309.1	1274.7	1282.0
42.5°	9144.1	3888.0	1181.2	1282.0	1257.4	1272.2	1151.6	1186.1	1223.0	1208.2	1210.7
45°	9341.0	3577.9	1134.4	1188.5	1195.9	1055.7	1028.6	1065.5	1112.3	1119.6	1122.1
47.5°	9166.3	3282.6	1085.2	1053.2	1102.4	962.2	930.2	942.5	996.6	1026.1	1031.1
50°	8632.3	2943.1	1011.4	932.6	905.6	863.7	834.2	836.7	898.2	949.8	959.7
52.5°	7881.8	2588.7	890.8	789.9	728.4	760.4	767.8	753.0	809.6	861.3	871.1
55°	7153.4	2145.8	706.2	642.3	585.7	654.6	674.2	654.6	671.8	706.2	708.7
57.5°	5037.1	1213.1	541.4	531.5	484.8	561.0	593.0	563.5	534.0	556.1	561.0
60°	2335.2	634.9	415.9	415.9	403.6	482.3	536.4	494.6	438.0	447.9	455.2
62.5°	730.8	401.1	305.1	287.9	329.7	410.9	455.2	413.4	347.0	347.0	356.8
65°	413.4	344.5	241.2	221.5	268.2	329.7	356.8	312.5	253.5	248.5	248.5
67.5°	383.9	327.3	214.1	179.6	189.5	211.6	221.5	191.9	174.7	172.3	174.7
70°	317.4	273.1	172.3	123.0	115.7	113.2	118.1	110.7	105.8	108.3	115.7
72.5°	196.9	164.9	108.3	73.8	64.0	61.5	61.5	61.5	59.1	59.1	59.1
75°	71.4	61.5	49.2	36.9	32.0	29.5	29.5	32.0	29.5	27.1	24.6
77.5°	22.1	19.7	19.7	19.7	17.2	14.8	12.3	12.3	9.8	7.4	7.4
80°	12.3	12.3	12.3	12.3	9.8	9.8	7.4	4.9	2.5	2.5	0.0
82.5°	12.3	12.3	12.3	9.8	9.8	9.8	7.4	4.9	2.5	0.0	0.0
85°	9.8	9.8	9.8	9.8	9.8	9.8	7.4	4.9	2.5	0.0	0.0
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	7.4	4.9	2.5	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)