

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: P633385

Luminaire Tested: GWS-SA2E-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9361.1 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

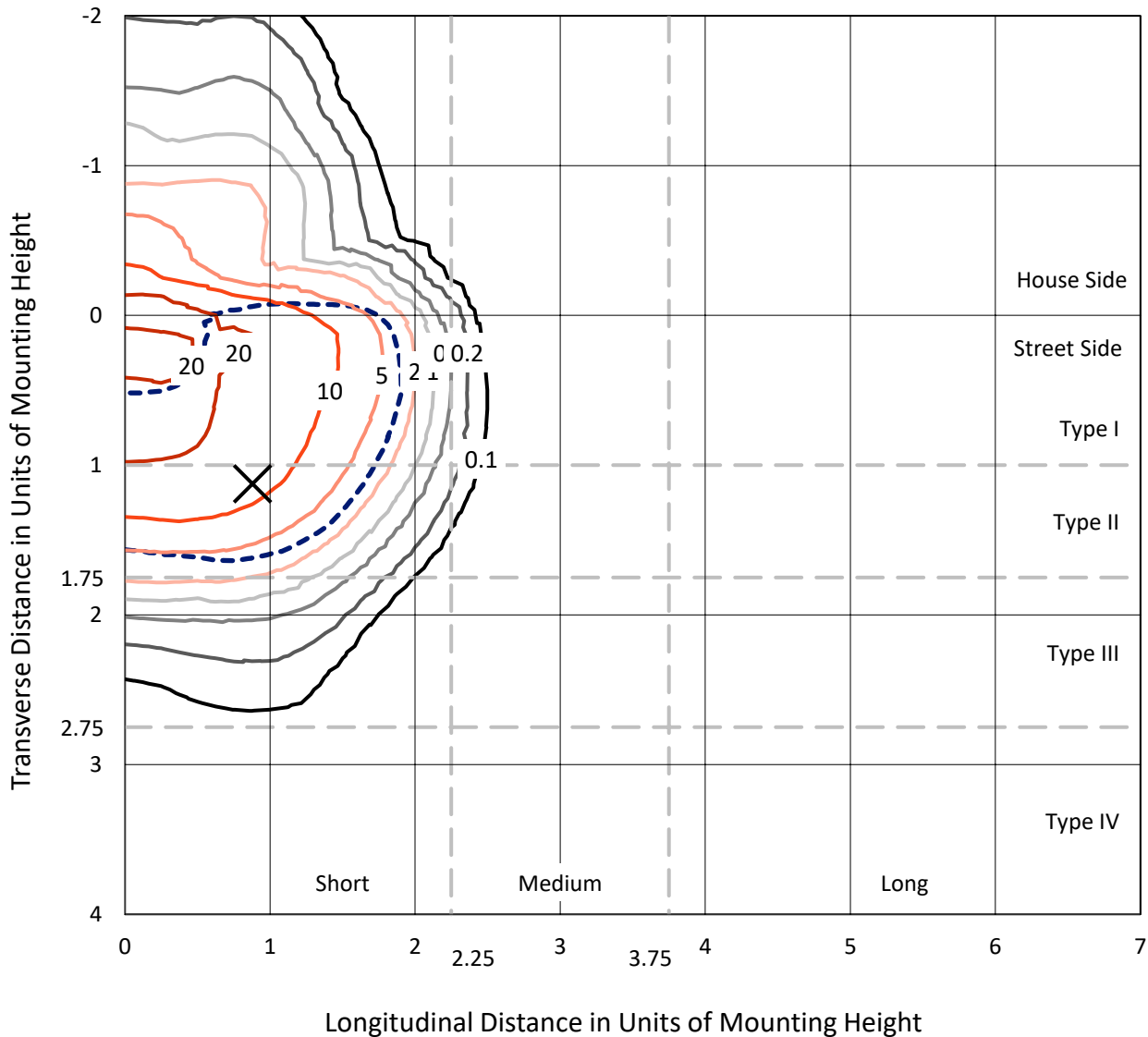
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

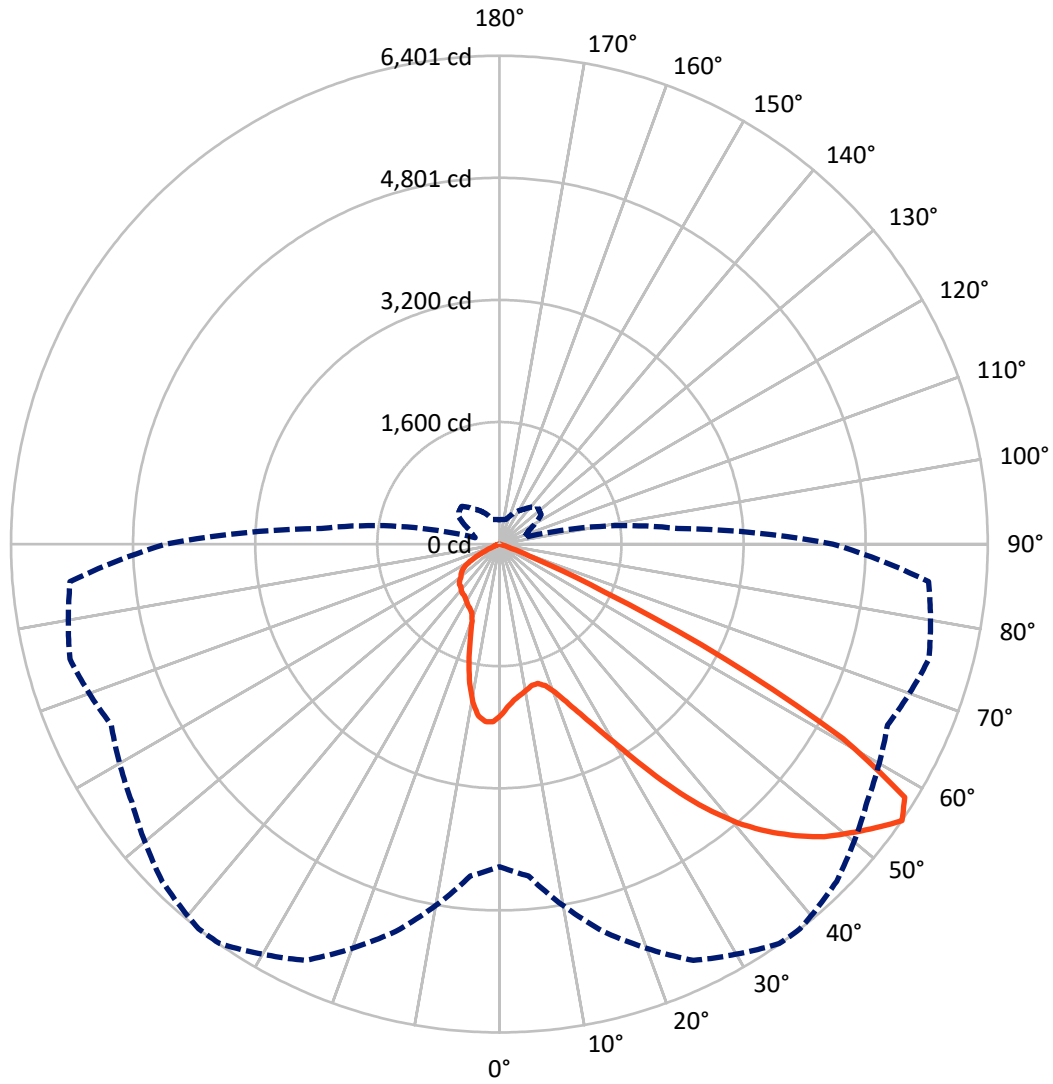
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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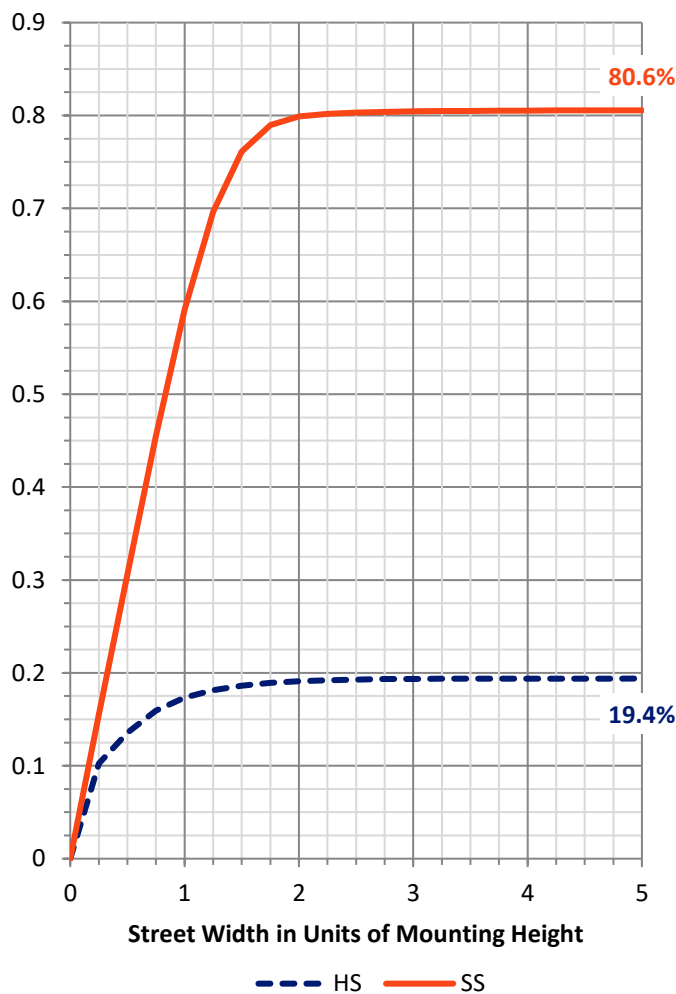
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1823.8	0.0	1823.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7537.3	0.0	7537.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	9361.1	0.0	9361.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	2.2
10°-20°	558.8	6.0
20°-30°	958.9	10.2
30°-40°	1590.4	17.0
40°-50°	2338.0	25.0
50°-60°	2732.1	29.2
60°-70°	926.1	9.9
70°-80°	47.3	0.5
80°-90°	1.9	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°	9361.1	100.0
0°-180°	9361.1	100.0

Coefficient of Utilization



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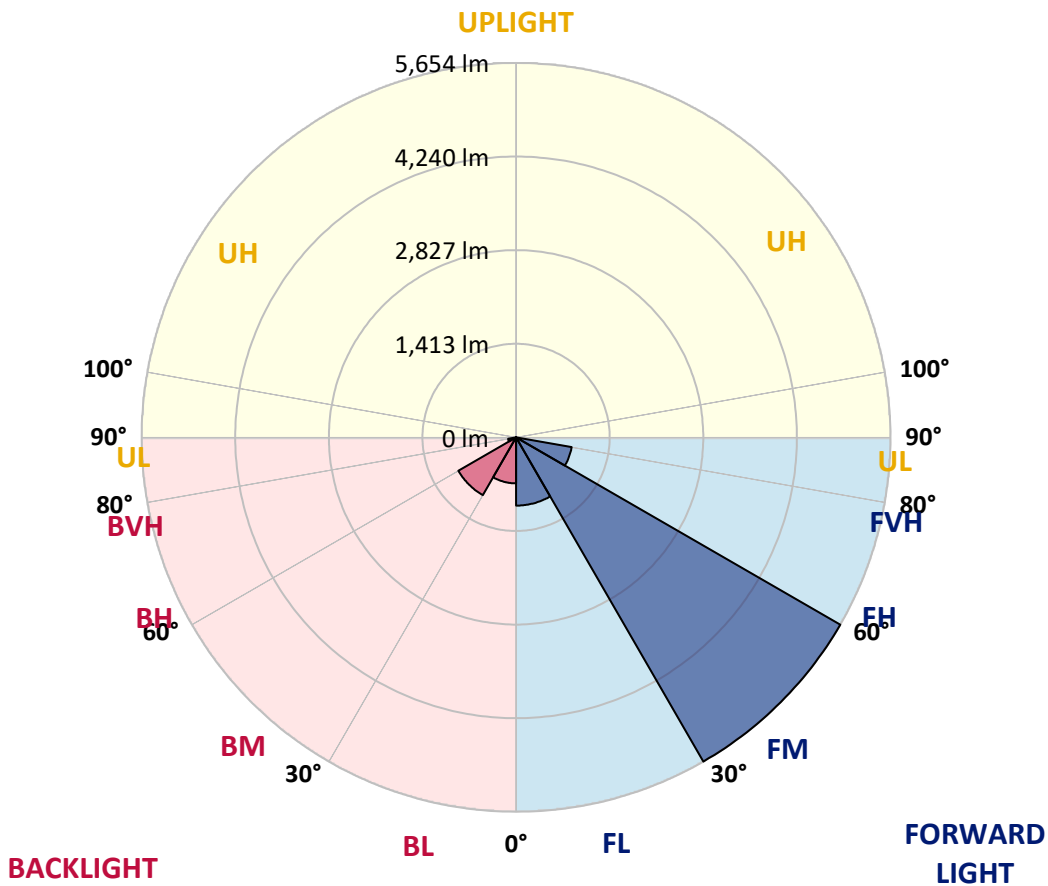
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.4	11.0			
FM (30°-60°)	5653.8	60.4			
FH (60°-80°)	852.0	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	694.9	7.4	B2/1000		
BM (30°-60°)	1006.7	10.8	B2/2500		
BH (60°-80°)	121.4	1.3	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9
2.5°	2090.8	2086.5	2095.1	2112.2	2128.2	2133.6	2149.6	2172.1	2186.0	2219.2	2245.9
5°	1996.6	1994.5	2003.0	2018.0	2039.4	2046.9	2071.5	2109.0	2146.4	2204.2	2260.9
7.5°	1911.0	1910.0	1922.8	1956.0	1987.0	1996.6	2026.6	2072.6	2122.9	2211.7	2295.2
10°	1798.7	1799.7	1824.4	1871.4	1928.1	1947.4	1995.6	2061.9	2127.2	2241.7	2357.2
12.5°	1762.3	1764.4	1777.3	1813.7	1875.7	1900.3	1967.7	2068.3	2151.8	2284.5	2437.5
15°	1851.1	1851.1	1840.4	1844.7	1872.5	1895.0	1965.6	2089.7	2193.5	2335.8	2516.6
17.5°	2023.4	2017.0	1990.2	1953.8	1944.2	1951.7	2008.4	2135.7	2252.4	2395.7	2606.5
20°	2256.6	2258.8	2206.3	2130.4	2069.4	2068.3	2102.6	2217.0	2336.9	2467.4	2703.9
22.5°	2539.1	2530.6	2461.0	2357.2	2251.3	2242.7	2256.6	2341.2	2458.9	2580.8	2823.7
25°	2866.5	2862.3	2763.8	2624.7	2484.5	2464.2	2464.2	2547.7	2633.3	2742.4	2967.1
27.5°	3208.9	3208.9	3113.7	2953.2	2767.0	2730.6	2725.3	2823.7	2880.4	2901.8	3088.0
30°	3561.0	3556.7	3462.5	3297.7	3098.7	3061.3	3046.3	3119.1	3159.7	3095.5	3238.9
32.5°	3918.3	3925.8	3830.6	3677.6	3500.0	3475.4	3429.4	3429.4	3462.5	3372.6	3476.4
35°	4302.5	4300.3	4225.4	4121.6	3969.7	3941.9	3865.9	3747.1	3797.4	3757.8	3804.9
37.5°	4641.7	4657.7	4621.3	4544.3	4421.2	4393.4	4268.2	4053.2	4091.7	4153.7	4195.5
40°	4986.2	4999.0	5035.4	5010.8	4855.7	4804.3	4581.7	4228.6	4271.4	4484.4	4604.2
42.5°	5324.3	5330.7	5404.6	5445.2	5237.7	5147.8	4819.3	4335.6	4380.6	4743.3	4953.0
45°	5539.4	5553.3	5675.3	5799.4	5574.7	5451.7	5025.8	4472.6	4491.9	4923.1	5210.9
47.5°	5530.8	5562.9	5791.9	6017.7	5864.7	5732.0	5274.0	4692.0	4659.9	5092.1	5381.0
50°	5358.6	5397.1	5725.6	6084.0	6073.3	5950.3	5550.1	5009.7	4909.2	5241.9	5402.4
52.5°	5001.2	5112.5	5608.9	6092.6	6241.3	6179.3	5891.4	5437.7	5246.2	5457.0	5436.7
55°	4228.6	4365.6	5254.8	6019.8	6393.3	6400.7	6249.9	5883.9	5612.2	5827.2	5647.5
57.5°	3210.0	3319.1	4044.6	5358.6	6141.8	6264.9	6389.0	6119.3	5837.9	6079.7	5696.7
60°	1934.6	2060.8	2532.7	3932.3	4960.5	5170.2	5657.1	5604.7	5265.5	5369.3	4671.6
62.5°	784.3	850.7	1169.5	2166.8	3122.3	3318.1	3784.6	3863.8	3780.3	3674.4	2833.4
65°	286.8	313.5	468.7	895.6	1435.9	1507.6	1753.7	1893.9	2009.5	1710.9	1054.0
67.5°	177.6	194.7	305.0	460.1	522.2	485.8	494.3	589.6	562.8	347.8	188.3
70°	131.6	145.5	238.6	318.9	210.8	162.6	110.2	117.7	105.9	93.1	92.0
72.5°	91.0	103.8	178.7	188.3	81.3	57.8	40.7	56.7	64.2	63.1	65.3
75°	59.9	69.6	112.4	73.8	20.3	16.1	13.9	30.0	38.5	38.5	39.6
77.5°	35.3	40.7	39.6	15.0	4.3	4.3	3.2	5.4	8.6	9.6	11.8
80°	4.3	3.2	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2
82.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
85°	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
87.5°	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
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°	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9
2.5°	2266.3	2258.8	2289.8	2312.3	2330.5	2339.0	2327.3	2326.2	2326.2	2302.6	2296.2
5°	2293.0	2296.2	2340.1	2359.4	2362.6	2351.9	2325.1	2306.9	2296.2	2271.6	2257.7
7.5°	2344.4	2355.1	2396.8	2393.6	2364.7	2315.5	2244.9	2190.3	2155.0	2116.5	2092.9
10°	2418.2	2438.5	2464.2	2419.3	2327.3	2202.1	2056.5	1952.8	1890.7	1846.8	1820.1
12.5°	2508.1	2528.4	2519.9	2413.9	2222.4	1998.8	1811.5	1661.7	1590.0	1550.4	1522.6
15°	2599.0	2611.9	2556.2	2349.7	2037.3	1736.6	1528.0	1379.2	1291.5	1259.4	1235.9
17.5°	2692.1	2688.9	2562.7	2223.5	1790.1	1441.3	1235.9	1134.2	1109.6	1104.2	1102.1
20°	2789.5	2760.6	2537.0	2042.6	1492.7	1149.2	1032.6	1039.0	1083.9	1105.3	1109.6
22.5°	2900.8	2828.0	2472.8	1797.6	1188.8	957.7	969.4	1032.6	1093.5	1122.4	1126.7
25°	3019.5	2890.1	2365.8	1483.0	937.3	880.6	950.2	1022.9	1088.2	1123.5	1127.8
27.5°	3097.7	2905.1	2190.3	1166.3	804.6	850.7	924.5	994.0	1061.4	1100.0	1105.3
30°	3182.2	2898.6	1951.7	898.8	759.7	825.0	889.2	952.3	1014.4	1057.2	1061.4
32.5°	3306.3	2894.4	1660.6	729.7	741.5	804.6	851.7	904.2	947.0	971.6	968.4
35°	3468.9	2889.0	1321.5	658.1	730.8	788.6	826.0	850.7	803.6	788.6	791.8
37.5°	3677.6	2901.8	1035.8	628.1	727.6	784.3	816.4	745.8	673.0	645.2	640.9
40°	3908.7	2935.0	789.7	616.3	738.3	795.0	780.0	663.4	573.5	519.0	507.2
42.5°	4140.9	2971.4	624.9	612.0	756.5	825.0	720.1	603.5	468.7	437.6	433.4
45°	4313.2	2965.0	540.4	604.6	772.5	842.1	704.1	517.9	418.4	404.5	405.5
47.5°	4399.8	2894.4	494.3	587.4	779.0	825.0	664.5	482.6	384.1	399.1	412.0
50°	4353.8	2711.4	451.5	554.3	765.1	802.5	601.3	455.8	367.0	429.1	458.0
52.5°	4298.2	2486.7	404.5	502.9	731.9	771.5	576.7	448.3	356.3	414.1	435.5
55°	4372.0	2344.4	327.4	423.7	666.6	698.7	557.5	447.3	331.7	322.1	318.9
57.5°	4268.2	2060.8	234.3	305.0	511.5	553.2	543.6	439.8	294.3	293.2	297.5
60°	3298.8	1257.3	160.5	193.7	313.5	353.1	493.3	420.5	253.6	233.3	234.3
62.5°	1874.6	535.0	110.2	119.8	160.5	190.5	376.6	382.0	234.3	222.6	234.3
65°	652.7	191.5	85.6	80.3	88.8	101.7	216.1	295.3	212.9	192.6	194.7
67.5°	134.8	95.2	76.0	66.3	66.3	66.3	110.2	184.0	175.5	153.0	155.2
70°	85.6	81.3	66.3	56.7	54.6	50.3	63.1	101.7	120.9	111.3	112.4
72.5°	63.1	62.1	52.4	46.0	40.7	36.4	39.6	50.3	62.1	64.2	65.3
75°	38.5	39.6	34.2	28.9	25.7	22.5	23.5	23.5	23.5	21.4	23.5
77.5°	11.8	12.8	10.7	8.6	7.5	7.5	7.5	6.4	5.4	3.2	3.2
80°	3.2	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0
82.5°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0
85°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	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)