

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: P639021

Luminaire Tested: GWS-SA5B-722-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10367.8 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

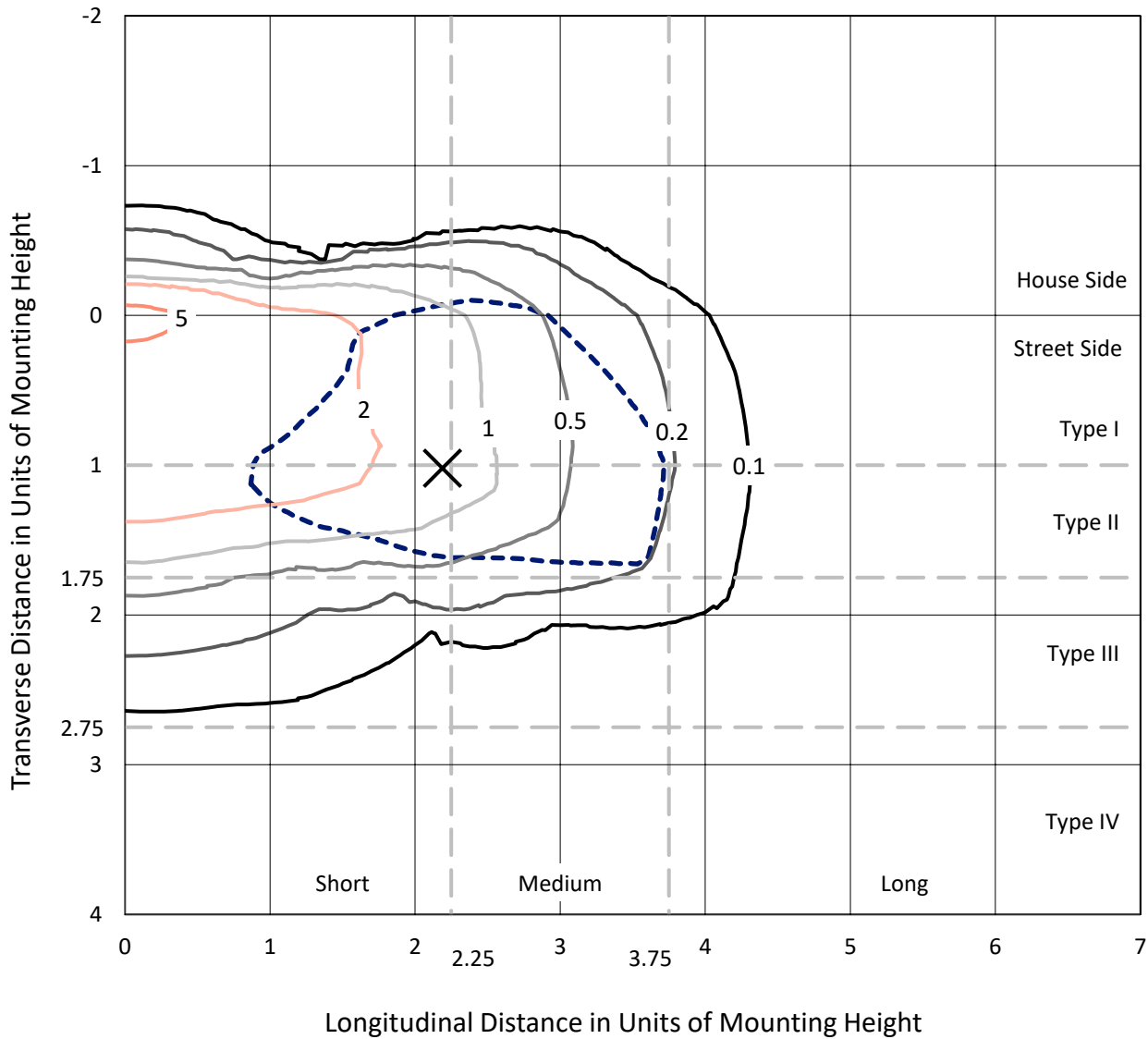
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

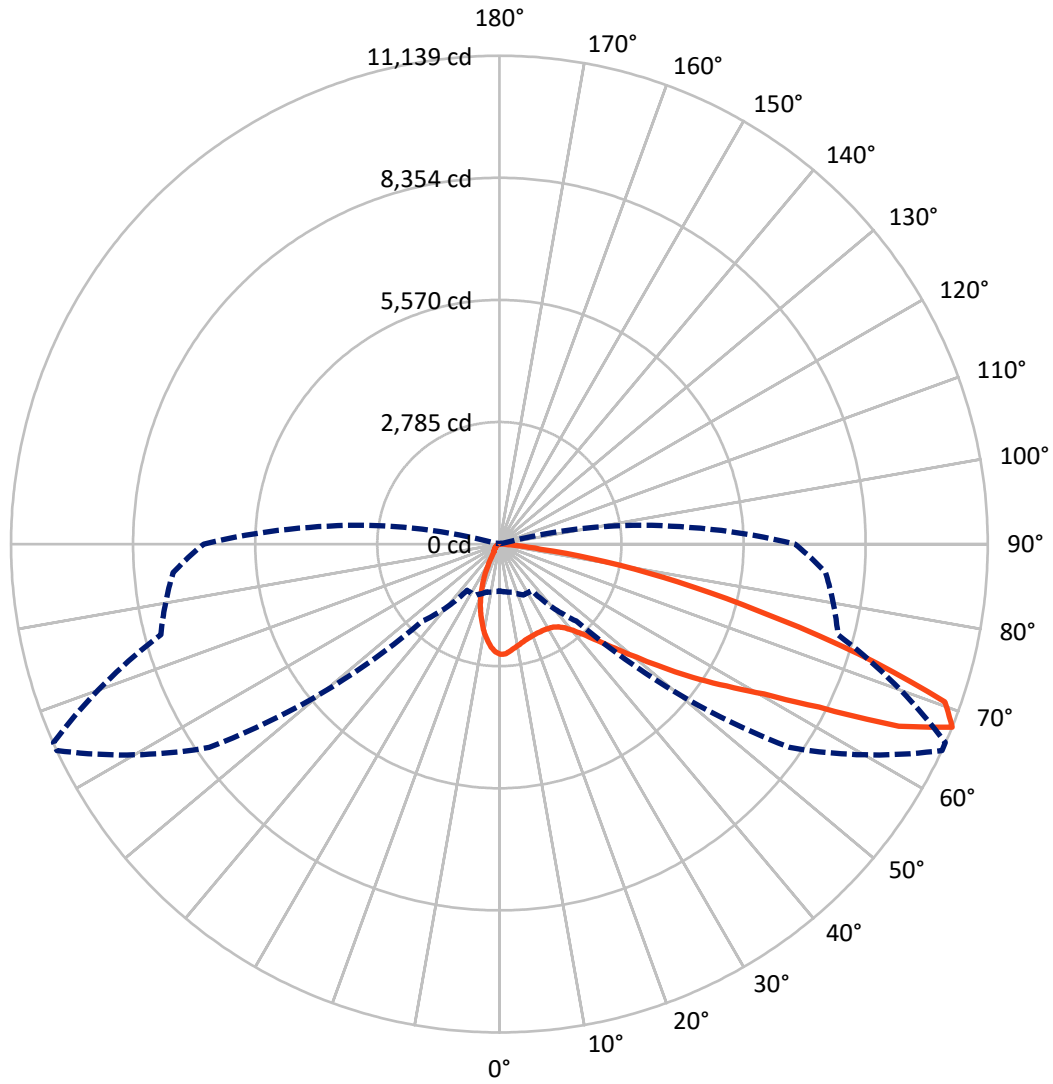
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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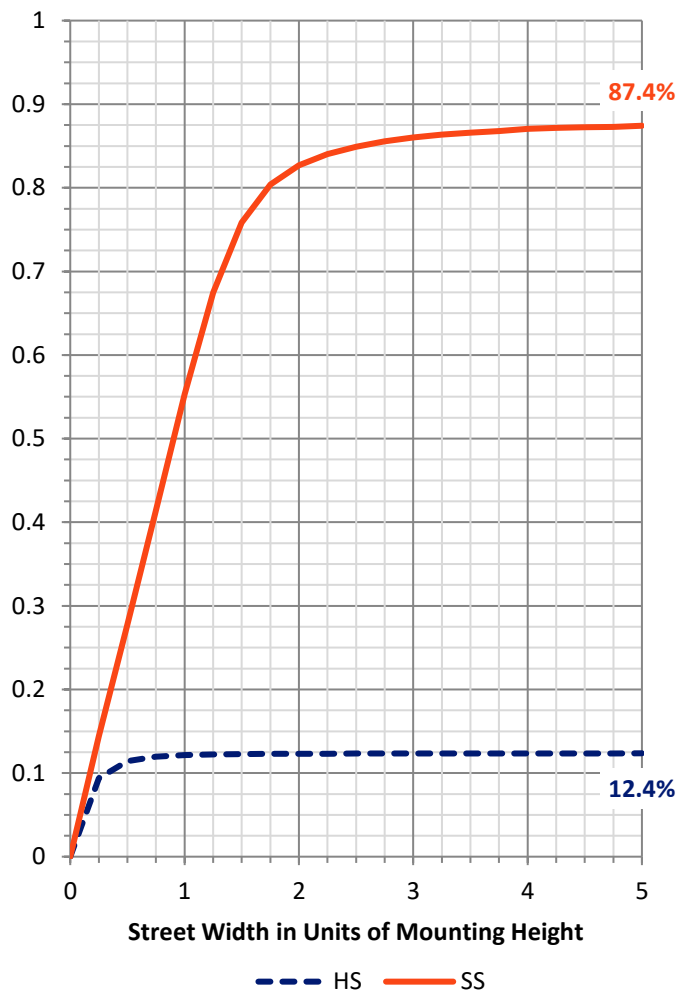
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1294.6	0.0	1294.6
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	9073.2	0.0	9073.2
	% Fixture	87.5	0.0	87.5
Total	Lumens	10367.8	0.0	10367.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	2.0
10°-20°	469.5	4.5
20°-30°	670.8	6.5
30°-40°	976.0	9.4
40°-50°	1528.6	14.7
50°-60°	2384.6	23.0
60°-70°	2619.4	25.3
70°-80°	1394.0	13.4
80°-90°	116.1	1.1
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°	10367.8	100.0
0°-180°	10367.8	100.0

Coefficient of Utilization



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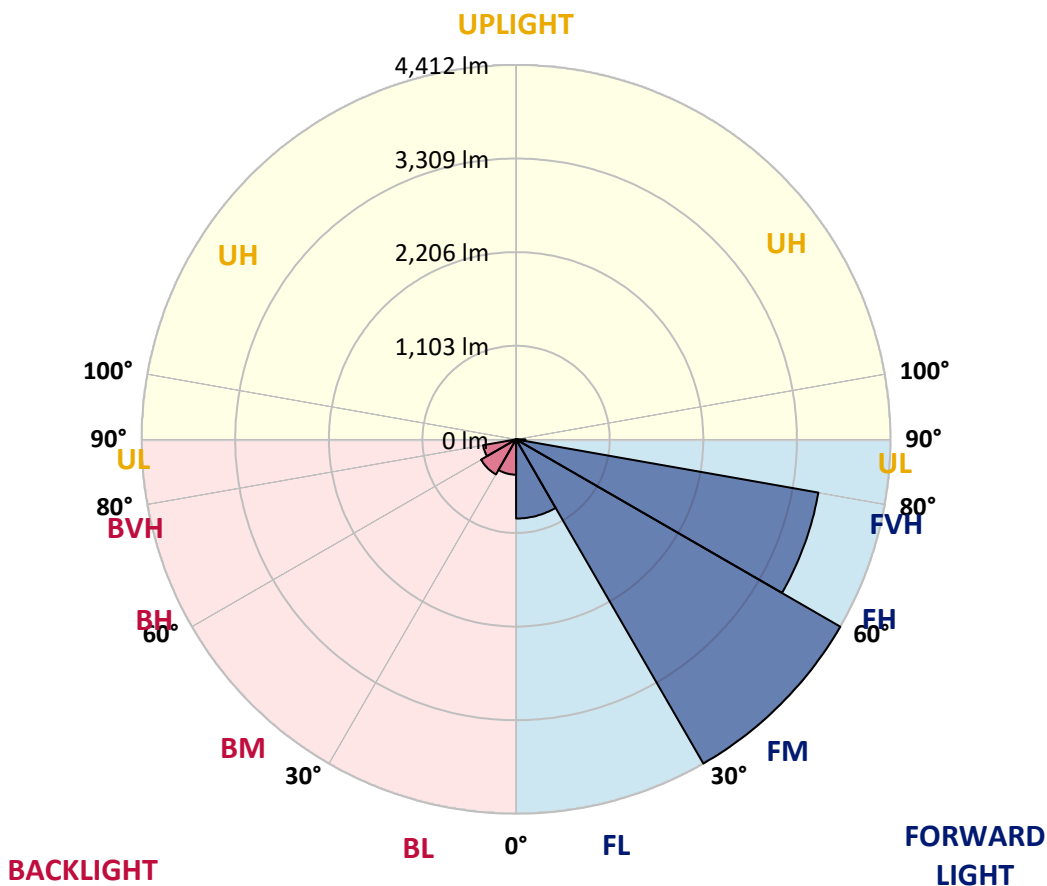
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.0	9.0			
FM (30°-60°)	4412.3	42.6			
FH (60°-80°)	3618.0	34.9			G2/5000
FVH (80°-90°)	109.9	1.1			G2/225
BL (0°-30°)	416.1	4.0	B1/500		
BM (30°-60°)	476.9	4.6	B1/1000		
BH (60°-80°)	395.4	3.8	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5
2.5°	2427.3	2434.8	2424.5	2449.8	2454.5	2482.6	2498.6	2509.8	2508.9	2523.0	2523.0
5°	2284.8	2292.3	2286.7	2313.9	2335.4	2379.5	2416.1	2458.3	2460.1	2503.3	2519.2
7.5°	2163.9	2164.8	2164.8	2198.6	2226.7	2281.1	2335.4	2400.1	2407.6	2474.2	2516.4
10°	2064.5	2067.3	2068.2	2106.7	2137.6	2203.3	2272.6	2350.4	2358.9	2448.9	2514.5
12.5°	1996.1	1997.0	2000.7	2041.1	2074.8	2143.2	2213.6	2302.6	2313.9	2419.8	2506.1
15°	1963.2	1961.4	1963.2	1997.0	2030.7	2096.4	2168.6	2264.2	2276.4	2395.4	2507.0
17.5°	1961.4	1958.5	1956.7	1982.0	2003.6	2061.7	2134.8	2238.9	2252.0	2384.2	2517.3
20°	1988.6	1986.7	1977.3	1988.6	1993.2	2041.1	2113.2	2219.2	2232.3	2382.3	2539.8
22.5°	2059.8	2055.1	2041.1	2030.7	2005.4	2033.6	2098.2	2205.1	2220.1	2387.0	2568.9
25°	2165.7	2163.9	2146.1	2120.7	2056.1	2044.8	2099.2	2205.1	2219.2	2392.6	2599.8
27.5°	2325.1	2313.9	2291.4	2247.3	2154.5	2088.9	2117.9	2210.8	2224.8	2400.1	2625.1
30°	2487.3	2486.4	2478.9	2433.9	2296.1	2173.2	2157.3	2225.8	2238.9	2406.7	2648.6
32.5°	2655.2	2658.0	2676.7	2642.0	2491.1	2298.9	2228.6	2256.7	2266.1	2419.8	2669.2
35°	2814.5	2820.2	2869.9	2882.0	2728.3	2489.2	2344.8	2318.6	2319.5	2448.9	2696.4
37.5°	2967.4	2986.1	3065.8	3124.9	3023.6	2719.8	2512.6	2423.6	2416.1	2507.0	2737.7
40°	3140.8	3176.4	3276.7	3377.1	3345.2	3024.5	2741.4	2584.8	2568.9	2613.9	2811.7
42.5°	3333.0	3371.4	3504.6	3645.2	3660.2	3393.0	3027.4	2820.2	2793.0	2793.9	2950.5
45°	3539.3	3590.8	3745.5	3948.0	4039.0	3803.7	3379.9	3138.0	3110.8	3070.5	3173.6
47.5°	3810.2	3855.2	4004.3	4237.7	4412.1	4244.3	3842.1	3546.8	3497.1	3438.0	3520.5
50°	4043.7	4083.0	4211.5	4504.0	4866.8	4812.5	4366.2	4057.7	4009.9	3909.6	3978.0
52.5°	4095.2	4126.2	4244.3	4573.4	5214.7	5529.7	5008.4	4675.6	4641.8	4456.2	4482.4
55°	3863.7	3910.5	4016.5	4382.1	5305.6	6231.0	5841.9	5372.2	5301.9	5005.6	5052.5
57.5°	3278.6	3362.1	3461.4	3936.8	5059.0	6604.1	7006.3	6110.0	6046.3	5534.4	5535.3
60°	2402.9	2470.5	2537.0	2972.0	4474.0	6578.8	8063.0	6938.8	6822.6	5966.6	5950.7
62.5°	1747.6	1782.3	1781.4	1936.0	3072.4	6145.7	8618.0	8187.7	7916.7	6428.8	6337.9
65°	1374.5	1373.5	1413.8	1464.5	1715.7	4744.0	8686.4	10011.2	9718.7	7048.5	6859.1
67.5°	1069.7	1090.4	1130.7	1279.8	1289.1	2482.6	8084.5	11139.1	11133.4	7994.5	7469.5
70°	825.0	853.2	910.4	1127.9	1190.7	1389.5	6049.1	10781.9	10872.8	8417.4	7037.3
72.5°	529.7	527.8	612.2	911.3	1143.8	1157.9	3345.2	8564.5	8667.7	7624.2	5690.0
75°	296.3	298.1	346.0	557.8	1066.0	1089.4	1656.7	6107.2	6188.8	5944.1	4371.8
77.5°	116.3	120.0	162.2	293.5	703.2	973.2	984.4	4164.6	4176.8	3683.6	2681.4
80°	46.9	49.7	82.5	181.9	428.5	655.3	703.2	2453.6	2403.9	1426.0	780.0
82.5°	14.1	15.0	32.8	103.1	224.1	466.0	474.4	941.3	888.8	306.6	198.8
85°	0.9	0.9	7.5	31.9	79.7	117.2	316.0	306.6	271.9	76.9	88.1
87.5°	0.0	0.0	0.9	0.9	1.9	3.8	33.8	56.3	57.2	14.1	39.4
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°	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5	2514.5
2.5°	2523.0	2489.2	2486.4	2460.1	2433.9	2401.1	2362.6	2334.5	2314.8	2280.1	2273.6
5°	2519.2	2474.2	2432.0	2357.0	2273.6	2183.6	2104.8	2031.7	1985.7	1954.8	1941.7
7.5°	2511.7	2454.5	2357.0	2215.4	2075.7	1918.2	1795.4	1682.9	1606.0	1561.0	1541.3
10°	2506.1	2429.2	2270.8	2056.1	1839.5	1622.0	1435.4	1268.5	1175.7	1102.6	1090.4
12.5°	2494.8	2392.6	2160.1	1869.5	1590.1	1301.3	1063.2	858.8	717.2	653.5	631.0
15°	2483.6	2354.2	2049.5	1672.6	1318.2	961.9	673.2	476.3	378.8	348.8	346.9
17.5°	2481.7	2319.5	1929.5	1486.0	1033.2	630.0	383.5	308.5	287.8	280.3	280.3
20°	2487.3	2290.4	1811.4	1271.3	752.9	383.5	286.0	267.2	255.0	248.5	248.5
22.5°	2493.0	2260.4	1697.9	1054.7	499.7	280.3	252.2	236.3	222.2	214.7	210.9
25°	2496.7	2227.6	1572.3	837.2	326.3	243.8	221.3	200.6	183.8	174.4	174.4
27.5°	2495.8	2188.2	1445.7	624.4	253.1	216.6	189.4	167.8	150.9	140.6	141.6
30°	2488.3	2145.1	1314.4	436.0	221.3	189.4	162.2	139.7	122.8	114.4	113.4
32.5°	2482.6	2099.2	1162.6	306.6	198.8	165.9	137.8	116.3	102.2	95.6	94.7
35°	2476.1	2054.2	1018.2	233.5	179.1	143.4	116.3	98.4	87.2	81.6	81.6
37.5°	2478.0	2007.3	861.6	200.6	159.4	124.7	99.4	84.4	75.0	69.4	68.4
40°	2507.0	1979.2	707.9	181.9	141.6	107.8	86.3	73.1	63.8	58.1	57.2
42.5°	2579.2	1980.1	560.7	167.8	125.6	91.9	75.0	62.8	54.4	47.8	46.9
45°	2723.6	2019.5	430.3	152.8	108.8	79.7	64.7	53.4	45.0	39.4	38.4
47.5°	2959.9	2136.7	326.3	139.7	94.7	69.4	55.3	45.0	37.5	32.8	31.9
50°	3335.8	2348.6	256.9	123.8	79.7	60.0	46.9	37.5	30.9	26.3	25.3
52.5°	3787.7	2666.4	220.3	109.7	68.4	52.5	40.3	30.9	25.3	21.6	20.6
55°	4307.1	3046.1	203.4	95.6	58.1	45.0	32.8	25.3	20.6	17.8	15.9
57.5°	4783.4	3388.3	202.5	81.6	49.7	38.4	27.2	21.6	17.8	14.1	13.1
60°	5247.5	3674.3	190.3	67.5	43.1	31.9	23.4	17.8	15.0	12.2	11.3
62.5°	5668.4	3906.8	159.4	54.4	36.6	26.3	19.7	15.9	13.1	10.3	10.3
65°	6197.2	4203.1	121.9	44.1	30.0	21.6	16.9	14.1	12.2	9.4	9.4
67.5°	6743.8	4359.6	87.2	36.6	24.4	18.8	15.0	13.1	10.3	8.4	8.4
70°	6108.2	3683.6	62.8	30.0	20.6	15.9	13.1	12.2	10.3	8.4	7.5
72.5°	4770.3	2656.1	46.9	23.4	17.8	15.0	12.2	11.3	9.4	7.5	7.5
75°	3537.4	1548.8	35.6	18.8	14.1	12.2	12.2	11.3	9.4	7.5	6.6
77.5°	1922.9	540.0	27.2	15.0	11.3	9.4	10.3	10.3	8.4	6.6	5.6
80°	509.1	148.1	18.8	11.3	9.4	7.5	7.5	9.4	7.5	5.6	5.6
82.5°	148.1	43.1	13.1	9.4	7.5	6.6	6.6	6.6	5.6	4.7	3.8
85°	72.2	15.9	9.4	7.5	6.6	5.6	4.7	4.7	3.8	2.8	2.8
87.5°	31.9	6.6	7.5	6.6	6.6	4.7	3.8	2.8	2.8	1.9	0.9
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)