

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: P636717

Luminaire Tested: GWS-SA4B-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11248.2 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

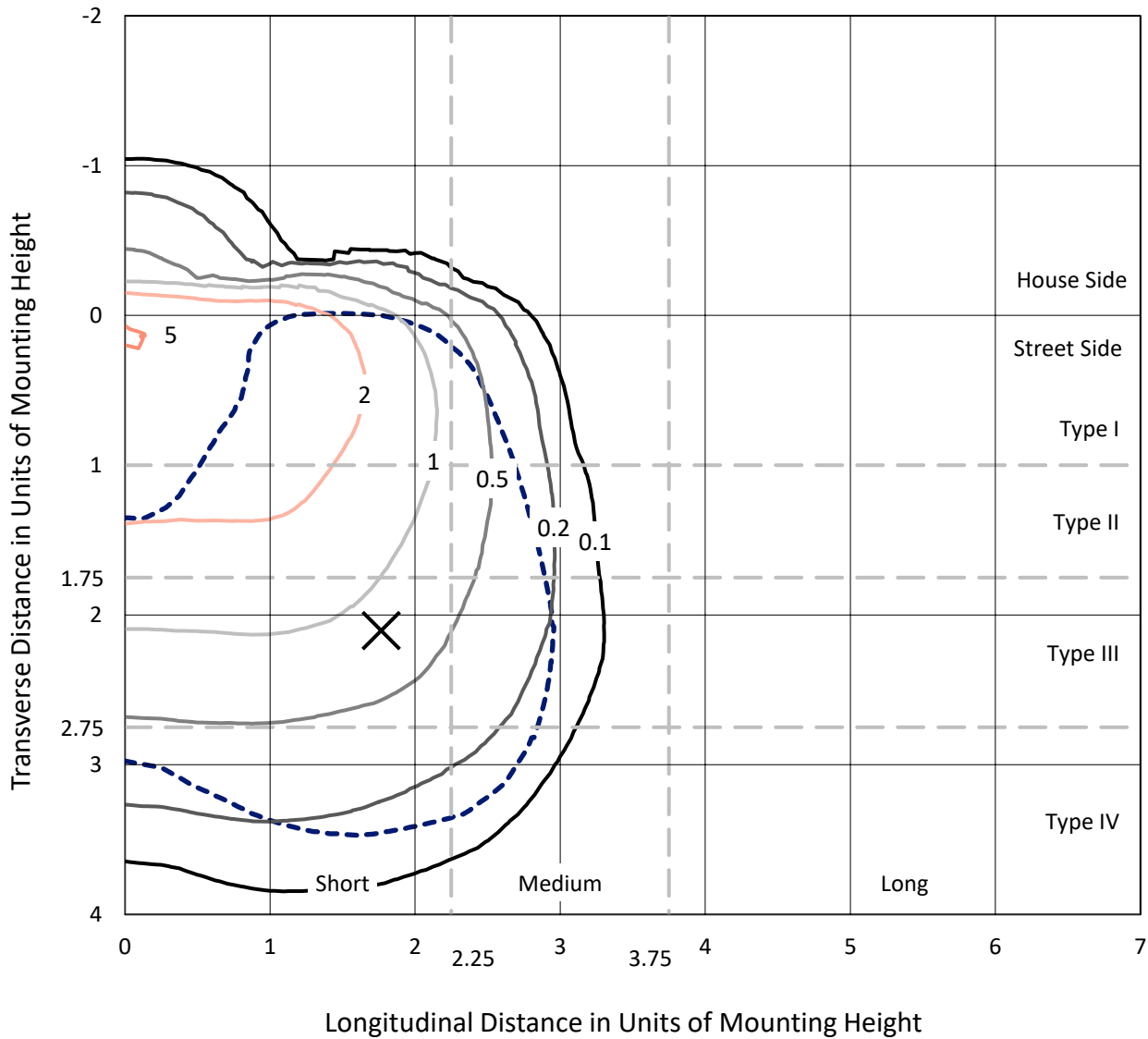
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

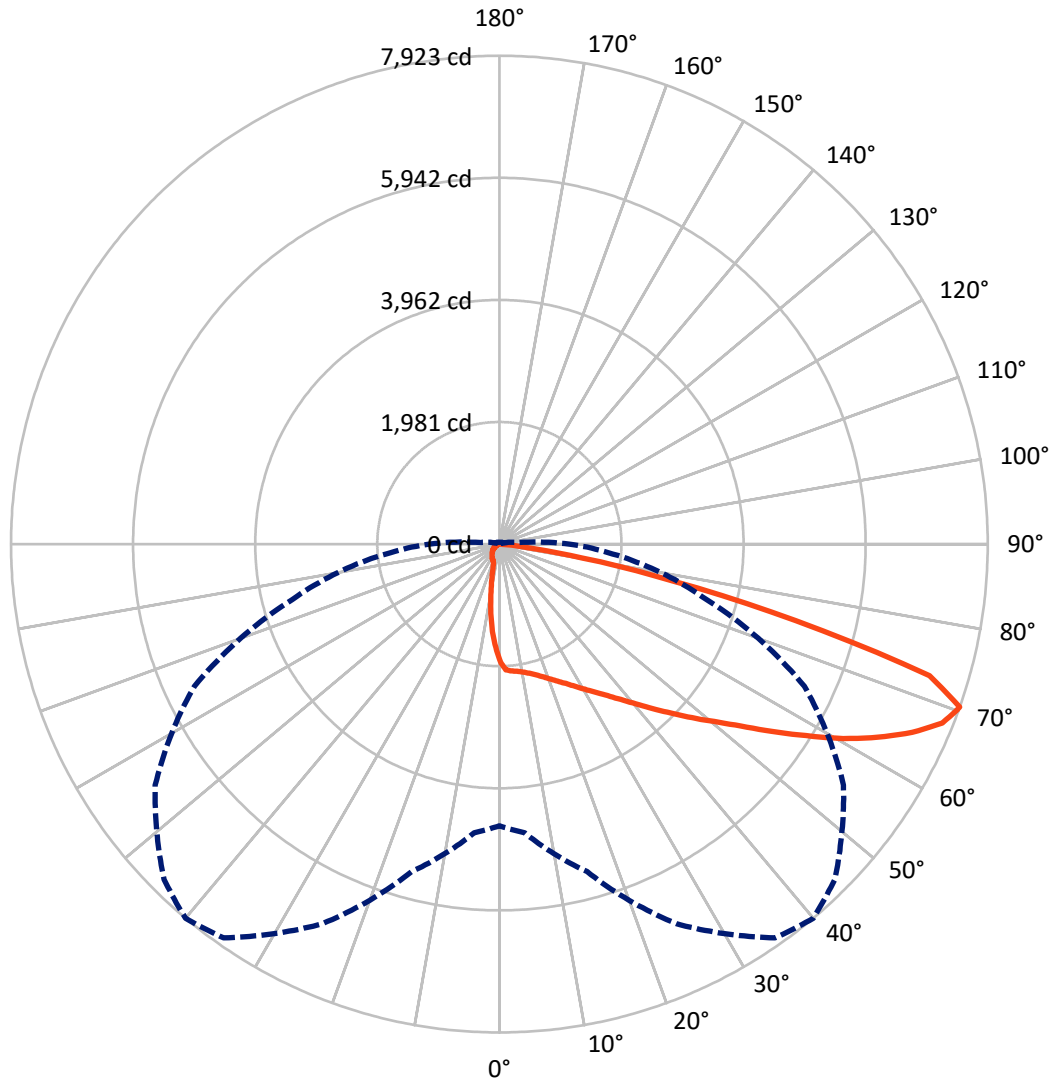
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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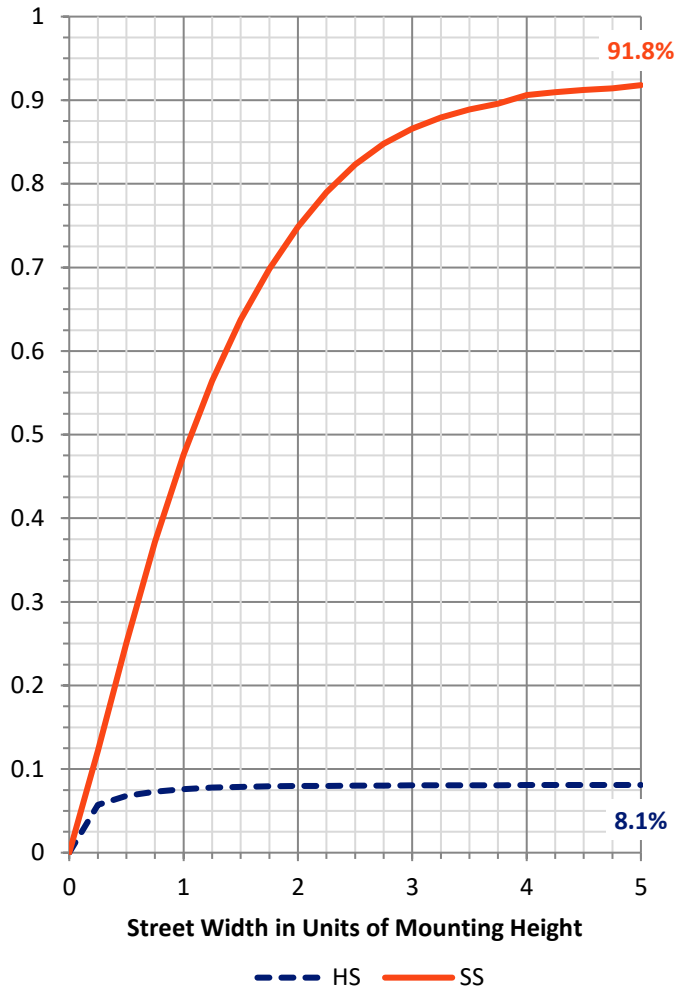
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	919.8	0.0	919.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10328.4	0.0	10328.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	11248.2	0.0	11248.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.4
10°-20°	409.1	3.6
20°-30°	684.8	6.1
30°-40°	1075.5	9.6
40°-50°	1701.2	15.1
50°-60°	2481.7	22.1
60°-70°	3076.4	27.4
70°-80°	1556.5	13.8
80°-90°	101.6	0.9
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°	11248.2	100.0
0°-180°	11248.2	100.0

Coefficient of Utilization



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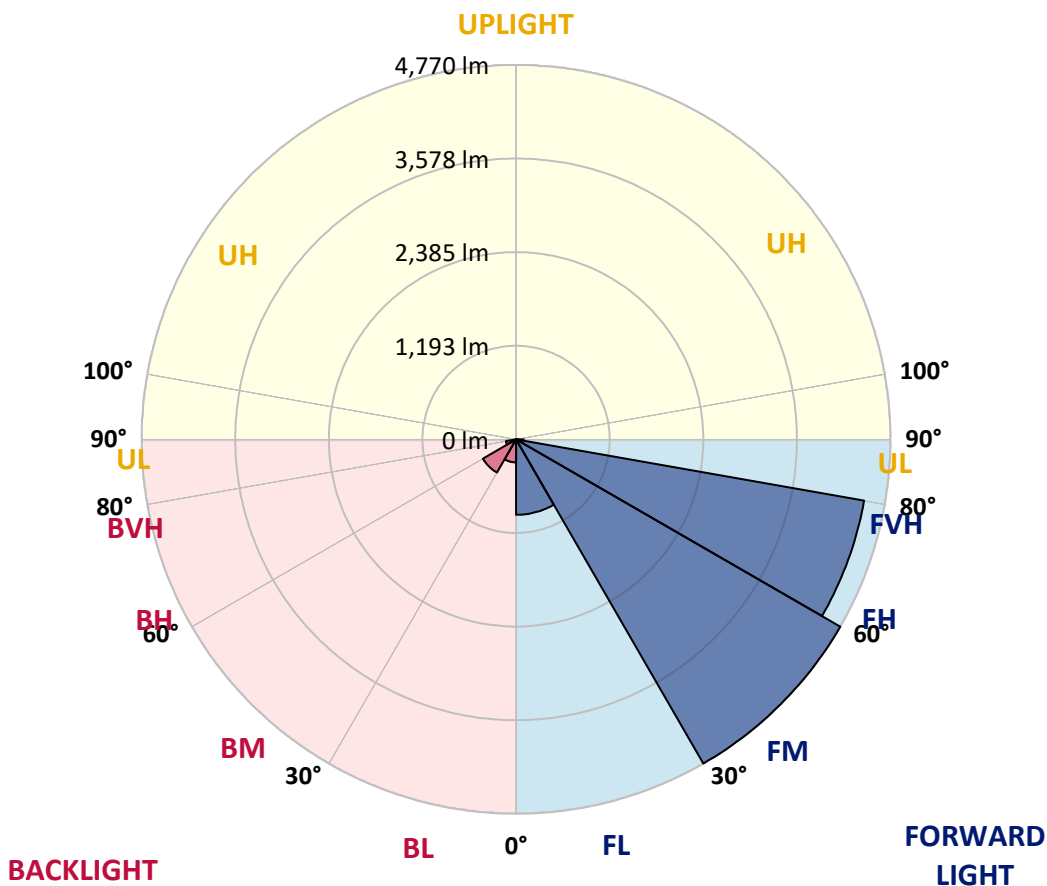
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.5	8.5			
FM (30°-60°)	4770.2	42.4			
FH (60°-80°)	4501.7	40.0			G2/5000
FVH (80°-90°)	94.9	0.8			G1/100
BL (0°-30°)	293.7	2.6	B1/500		
BM (30°-60°)	488.2	4.3	B1/1000		
BH (60°-80°)	131.1	1.2	B1/500		G1/500
BVH (80°-90°)	6.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7
2.5°	2052.0	2059.1	2058.1	2061.2	2054.0	2042.8	2040.7	2025.4	1997.7	1962.9	1924.0
5°	2093.9	2102.1	2096.0	2092.9	2079.6	2067.3	2064.2	2047.9	2016.1	1969.1	1901.5
7.5°	2129.7	2131.8	2127.7	2120.5	2101.1	2084.7	2073.5	2050.9	2013.1	1966.0	1888.2
10°	2135.9	2134.9	2136.9	2137.9	2125.7	2111.3	2102.1	2071.4	2023.3	1973.2	1889.2
12.5°	2128.7	2128.7	2142.0	2157.4	2157.4	2150.2	2141.0	2113.4	2057.1	1997.7	1909.7
15°	2137.9	2141.0	2166.6	2195.2	2204.5	2197.3	2193.2	2164.5	2106.2	2040.7	1946.6
17.5°	2170.7	2173.8	2214.7	2257.7	2268.9	2260.7	2252.6	2223.9	2161.5	2089.8	1988.5
20°	2218.8	2227.0	2279.2	2334.4	2344.7	2334.4	2318.1	2278.1	2215.7	2143.0	2028.4
22.5°	2306.8	2311.9	2368.2	2426.5	2431.7	2415.3	2390.7	2335.5	2270.0	2199.3	2073.5
25°	2423.5	2430.6	2486.9	2543.2	2529.9	2505.3	2471.6	2409.1	2334.4	2265.9	2130.8
27.5°	2562.7	2570.8	2626.1	2675.2	2640.4	2611.8	2573.9	2496.1	2420.4	2358.0	2204.5
30°	2713.1	2720.3	2769.4	2813.4	2767.3	2733.6	2688.5	2608.7	2531.9	2484.9	2308.8
32.5°	2858.4	2857.4	2904.5	2940.3	2893.2	2866.6	2825.7	2744.8	2683.4	2662.9	2464.4
35°	2993.5	2993.5	3032.4	3068.2	3034.5	3020.1	2982.3	2917.8	2883.0	2907.5	2672.2
37.5°	3129.6	3122.5	3159.3	3199.2	3196.2	3197.2	3175.7	3145.0	3147.0	3234.0	2957.7
40°	3242.2	3239.1	3282.1	3334.3	3375.3	3408.0	3394.7	3406.0	3470.4	3633.2	3323.1
42.5°	3332.3	3339.4	3394.7	3477.6	3581.0	3647.5	3656.7	3702.7	3868.5	4120.3	3735.5
45°	3435.6	3436.7	3513.4	3640.3	3805.1	3910.5	3947.3	4066.1	4301.4	4625.9	4187.8
47.5°	3562.5	3550.3	3636.2	3814.3	4052.8	4208.3	4273.8	4422.2	4786.6	5119.2	4556.3
50°	3702.7	3680.2	3777.5	4020.0	4330.1	4524.6	4657.6	4874.6	5267.6	5524.4	4830.6
52.5°	3865.5	3844.0	3954.5	4256.4	4662.7	4899.1	5070.0	5289.1	5680.0	5833.5	4994.3
55°	4072.2	4050.7	4167.4	4539.9	5055.7	5362.7	5541.8	5726.1	6063.8	6061.7	5113.0
57.5°	4301.4	4271.8	4433.5	4898.1	5545.9	5865.2	6047.4	6137.5	6355.5	6238.8	5192.9
60°	4564.5	4537.9	4762.0	5324.9	6111.9	6407.7	6522.3	6485.4	6594.9	6343.2	5165.2
62.5°	4801.9	4789.6	5068.0	5777.2	6651.2	6900.9	6932.7	6772.0	6771.0	6345.2	4979.0
65°	5048.5	5072.1	5485.5	6298.1	7193.6	7361.5	7307.2	7056.5	6841.6	6094.5	4428.4
67.5°	5140.7	5209.2	5760.9	6768.9	7621.4	7752.4	7657.3	7198.8	6547.9	5251.2	3372.2
70°	4571.6	4700.6	5500.9	6795.5	7798.5	7923.3	7695.1	6816.0	5458.9	3478.6	1847.3
72.5°	3476.6	3627.0	4583.9	5564.4	7013.5	7298.0	6908.1	5553.1	3518.5	1523.9	620.2
75°	1945.5	2108.3	3414.1	4189.9	4708.8	4968.7	4825.4	3562.5	1558.7	398.1	185.2
77.5°	658.1	712.3	1588.4	2592.3	3108.1	2874.8	2433.7	1769.5	573.1	151.5	98.2
80°	389.9	410.4	591.5	1290.5	1635.4	1356.0	1070.5	654.0	291.7	80.9	68.6
82.5°	116.7	138.2	326.5	479.0	640.7	399.1	337.7	373.5	151.5	44.0	57.3
85°	0.0	0.0	69.6	148.4	167.8	65.5	65.5	211.8	27.6	18.4	42.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.1	3.1	4.1	9.2
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°	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7	1908.7
2.5°	1896.4	1860.6	1818.6	1778.7	1740.8	1691.7	1668.2	1639.5	1615.0	1601.7	1608.8
5°	1858.5	1802.2	1716.3	1629.3	1541.3	1458.4	1383.7	1333.5	1288.5	1265.0	1270.1
7.5°	1825.8	1750.1	1616.0	1473.7	1332.5	1190.2	1074.6	984.5	914.9	886.3	881.2
10°	1811.5	1716.3	1526.9	1322.3	1105.3	913.9	750.2	650.9	580.3	545.5	551.6
12.5°	1818.6	1698.9	1451.2	1173.9	892.4	669.3	512.7	419.6	369.5	349.0	343.9
15°	1839.1	1694.8	1383.7	1022.4	688.8	467.7	354.1	316.2	306.0	304.0	304.0
17.5°	1862.6	1695.8	1314.1	868.9	523.0	346.9	302.9	295.8	292.7	290.7	291.7
20°	1886.2	1695.8	1234.2	713.3	393.0	299.9	288.6	283.5	280.4	279.4	279.4
22.5°	1914.8	1695.8	1145.2	569.0	315.2	284.5	275.3	272.2	269.2	268.1	267.1
25°	1949.6	1696.8	1047.0	445.2	286.6	271.2	264.0	261.0	257.9	255.9	255.9
27.5°	1999.8	1705.0	938.5	346.9	270.2	258.9	252.8	249.7	246.6	243.6	243.6
30°	2072.4	1725.5	816.7	286.6	254.8	245.6	239.5	237.4	234.4	231.3	230.3
32.5°	2180.9	1761.3	690.8	256.9	240.5	231.3	224.1	222.1	219.0	215.9	214.9
35°	2332.4	1826.8	568.0	238.5	222.1	212.9	208.8	207.8	203.7	200.6	200.6
37.5°	2554.5	1933.2	450.3	220.0	206.7	199.6	194.5	192.4	188.3	185.2	184.2
40°	2825.7	2071.4	350.0	205.7	192.4	185.2	180.1	177.1	171.9	167.8	165.8
42.5°	3171.6	2240.3	276.3	190.4	179.1	171.9	167.8	161.7	154.5	148.4	147.4
45°	3531.8	2414.3	228.2	176.0	166.8	160.7	155.6	147.4	137.1	130.0	127.9
47.5°	3808.2	2522.7	199.6	160.7	153.5	148.4	142.3	132.0	119.7	111.6	109.5
50°	4005.7	2539.1	178.1	146.3	142.3	137.1	127.9	115.6	102.3	94.2	92.1
52.5°	4102.9	2465.4	160.7	133.0	130.0	124.9	113.6	100.3	86.0	77.8	75.7
55°	4146.9	2326.2	144.3	121.8	117.7	111.6	99.3	84.9	70.6	63.5	61.4
57.5°	4129.5	2120.5	130.0	110.5	105.4	98.2	84.9	69.6	58.3	51.2	50.1
60°	4000.6	1831.9	115.6	99.3	93.1	84.9	71.6	57.3	47.1	42.0	40.9
62.5°	3722.2	1473.7	101.3	86.0	81.9	73.7	61.4	47.1	38.9	35.8	34.8
65°	3152.1	1041.8	87.0	72.7	70.6	62.4	51.2	38.9	33.8	31.7	30.7
67.5°	2265.9	633.5	73.7	62.4	60.4	53.2	43.0	33.8	30.7	29.7	29.7
70°	1139.1	299.9	58.3	51.2	51.2	44.0	36.8	30.7	29.7	28.7	28.7
72.5°	386.9	127.9	44.0	39.9	42.0	37.9	31.7	28.7	28.7	28.7	28.7
75°	132.0	67.5	30.7	28.7	30.7	30.7	27.6	27.6	28.7	28.7	28.7
77.5°	86.0	45.0	21.5	19.4	23.5	23.5	23.5	25.6	27.6	27.6	27.6
80°	70.6	24.6	14.3	13.3	17.4	17.4	19.4	23.5	25.6	25.6	25.6
82.5°	60.4	15.4	8.2	9.2	12.3	13.3	16.4	19.4	22.5	23.5	23.5
85°	40.9	8.2	6.1	7.2	8.2	10.2	13.3	16.4	18.4	20.5	20.5
87.5°	11.3	3.1	4.1	5.1	5.1	7.2	10.2	12.3	14.3	15.4	15.4
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)