

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: P632334

Luminaire Tested: GWS-SA2C-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7464.2 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

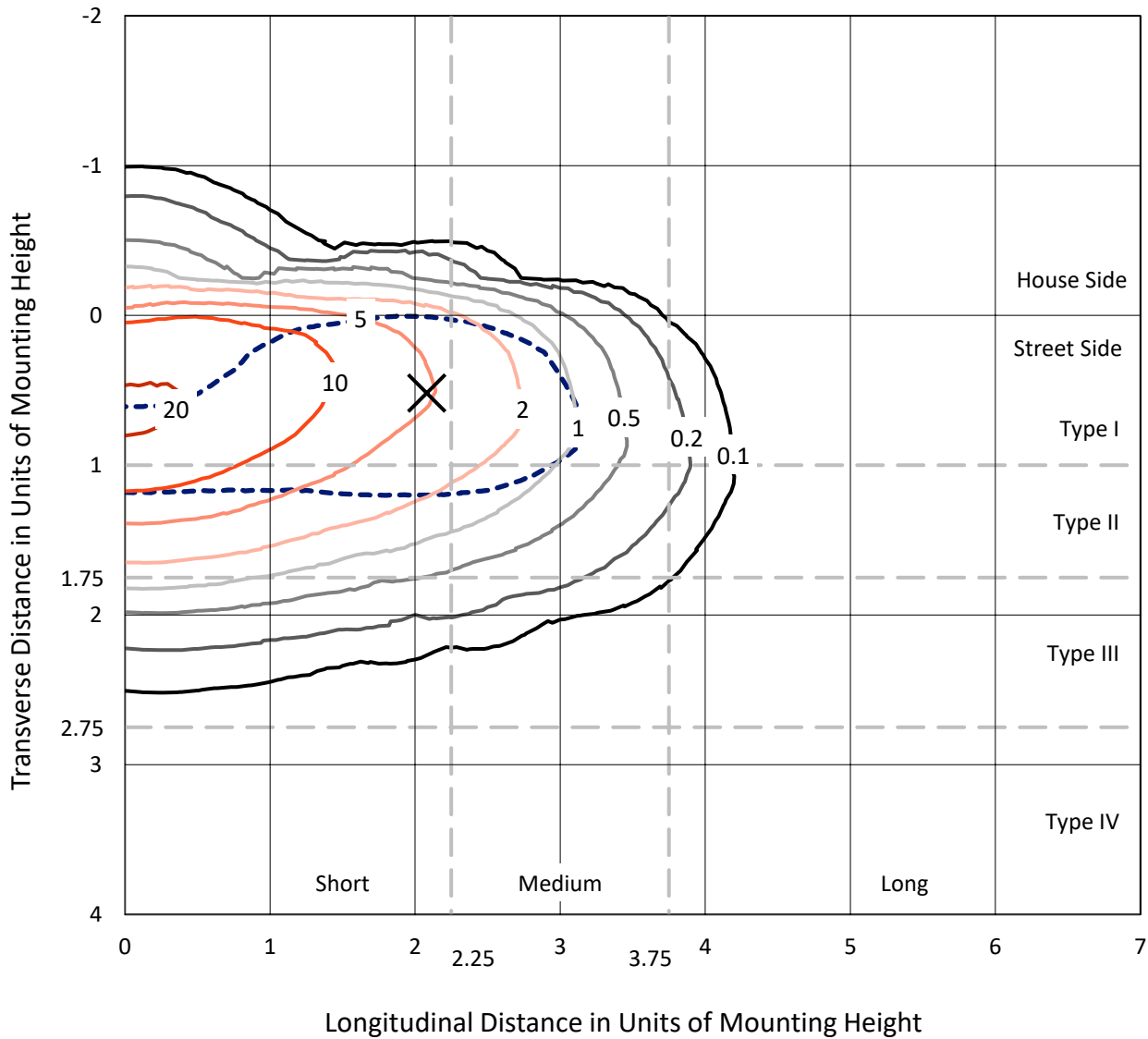
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

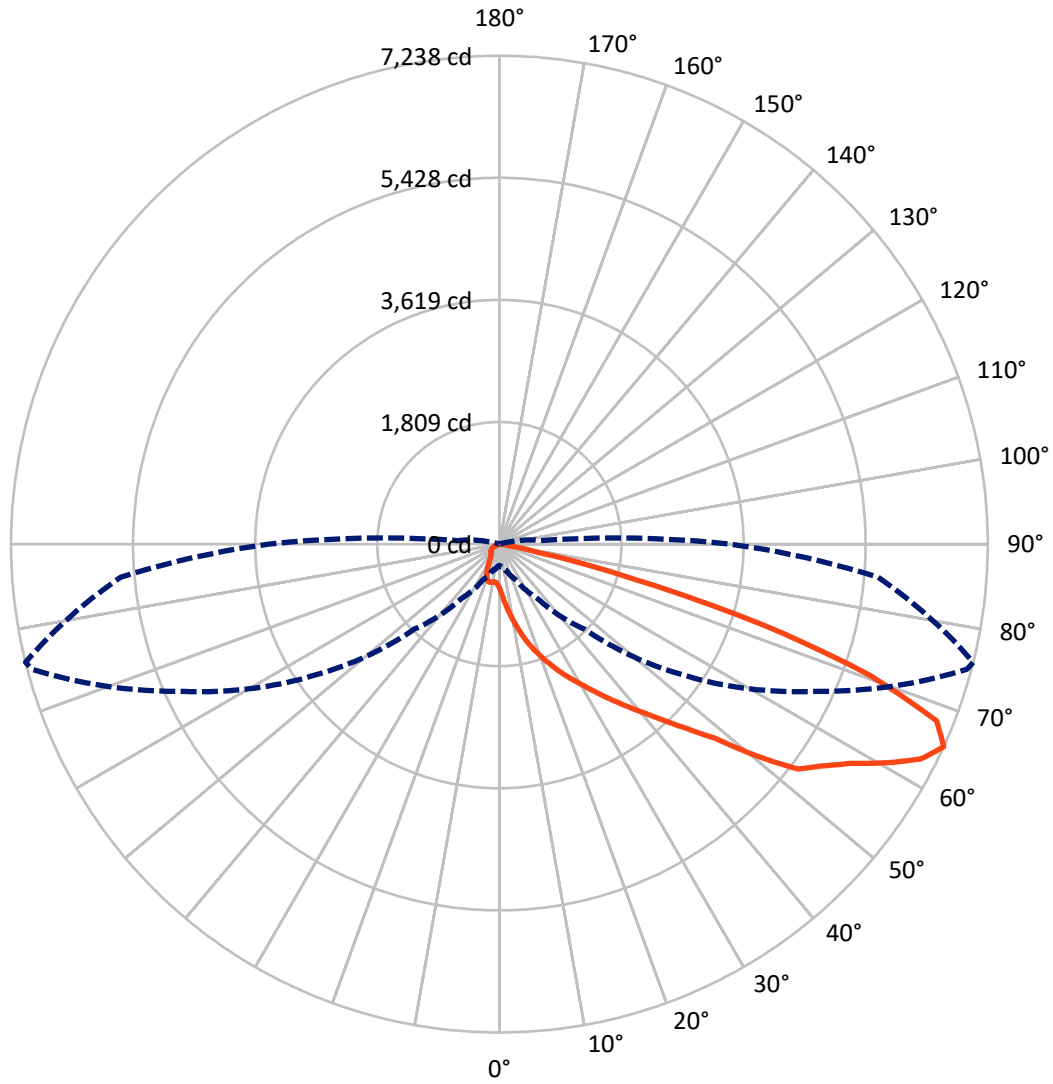
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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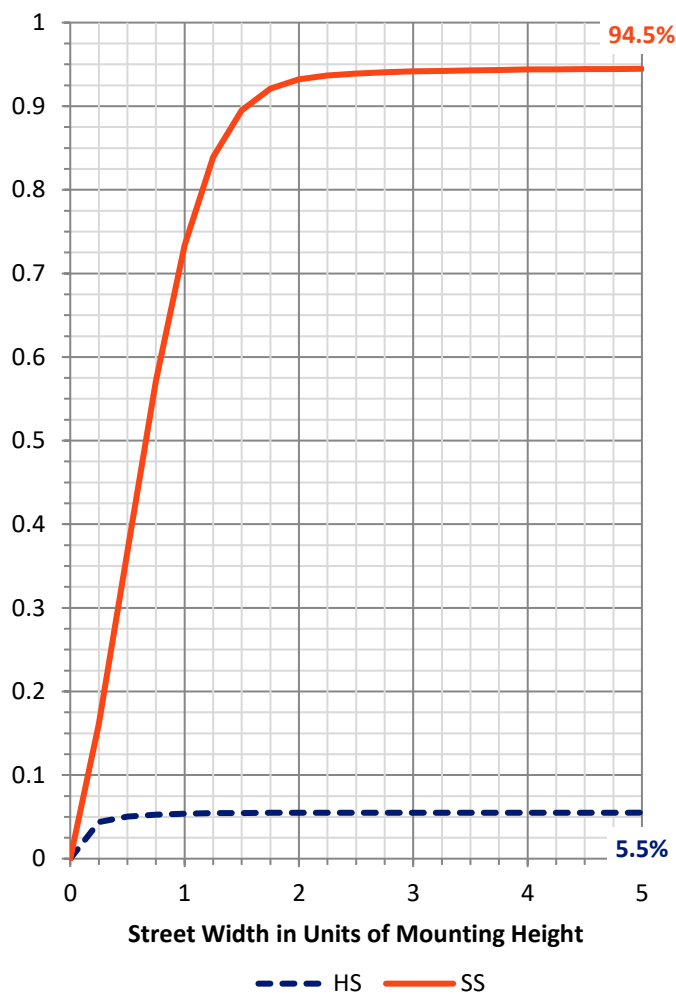
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.7	0.0	412.7
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	7051.5	0.0	7051.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	7464.2	0.0	7464.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.1
10°-20°	305.1	4.1
20°-30°	622.4	8.3
30°-40°	1106.9	14.8
40°-50°	1636.3	21.9
50°-60°	1873.4	25.1
60°-70°	1429.3	19.1
70°-80°	400.4	5.4
80°-90°	10.1	0.1
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°	7464.2	100.0
0°-180°	7464.2	100.0

Coefficient of Utilization



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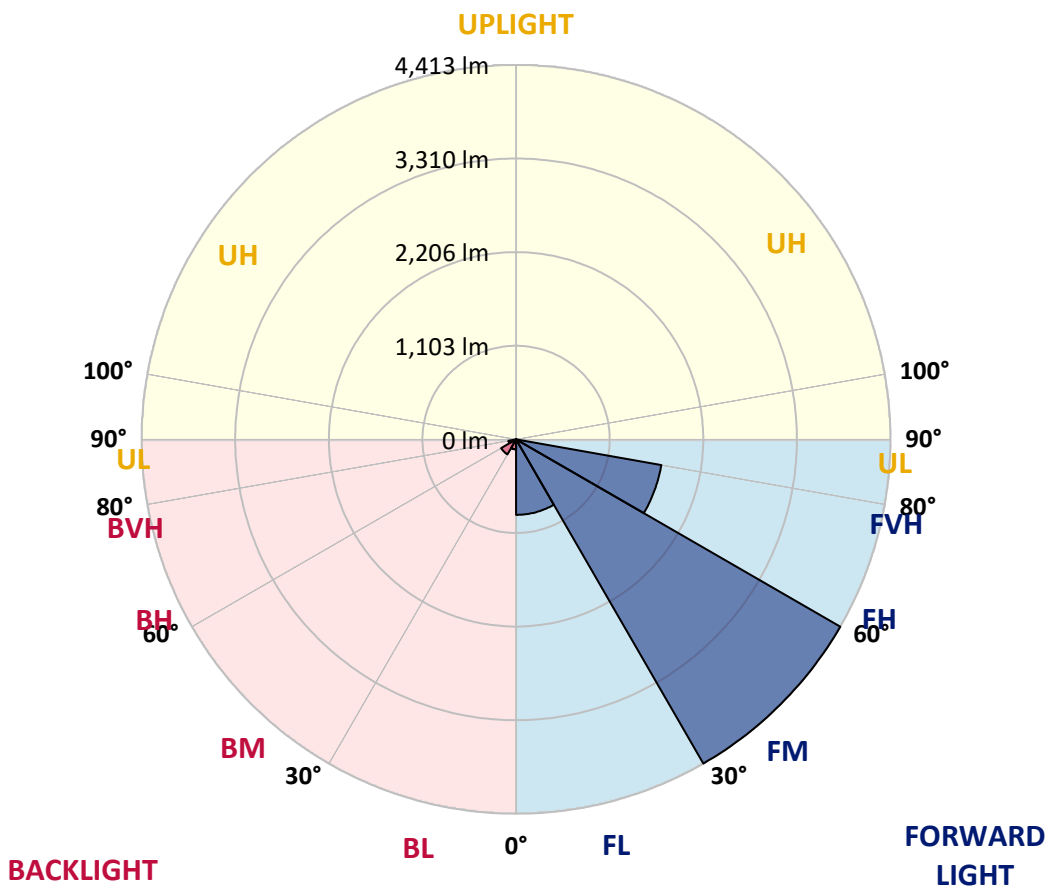
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.0	11.9			
FM (30°-60°)	4413.0	59.1			
FH (60°-80°)	1739.0	23.3			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	117.8	1.6	B1/500		
BM (30°-60°)	203.6	2.7	B0/220		
BH (60°-80°)	90.7	1.2	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	1018.5	1033.7	1021.8	1001.9	963.4	926.3	878.5	812.8	760.4	753.7	704.6
5°	1375.5	1374.1	1348.2	1322.4	1281.9	1218.2	1122.0	999.9	882.5	872.5	762.4
7.5°	1587.8	1589.8	1575.2	1555.3	1515.5	1449.8	1349.6	1202.3	1030.4	1010.5	841.3
10°	1766.3	1765.6	1755.0	1745.7	1709.9	1666.1	1558.6	1396.7	1189.7	1158.5	929.6
12.5°	1900.3	1904.9	1910.2	1919.5	1904.3	1861.1	1759.6	1583.1	1350.9	1316.4	1030.4
15°	2006.4	2007.8	2027.7	2063.5	2076.1	2053.6	1961.3	1763.6	1510.1	1480.3	1146.5
17.5°	2038.3	2041.0	2074.8	2140.5	2206.8	2219.4	2149.8	1945.4	1666.7	1634.9	1259.3
20°	2105.3	2111.3	2136.5	2194.2	2277.8	2345.5	2318.3	2129.2	1823.3	1781.5	1374.8
22.5°	2316.3	2319.6	2311.0	2318.3	2361.4	2439.7	2456.3	2307.0	1983.9	1939.4	1499.5
25°	2679.2	2680.6	2620.2	2563.1	2530.6	2545.2	2581.7	2470.9	2143.1	2099.3	1615.6
27.5°	3056.1	3060.8	2988.4	2891.6	2775.5	2709.1	2698.5	2620.9	2303.7	2255.3	1730.4
30°	3411.1	3411.1	3334.8	3216.7	3061.4	2932.0	2855.7	2772.1	2475.5	2422.5	1847.9
32.5°	3730.2	3727.6	3630.1	3502.0	3348.7	3206.7	3046.2	2930.1	2666.6	2607.6	1983.2
35°	3993.7	3987.0	3876.2	3753.5	3589.6	3484.1	3304.9	3099.9	2873.7	2814.6	2122.6
37.5°	4192.7	4185.4	4083.9	3953.8	3801.9	3733.6	3583.6	3303.6	3091.9	3038.2	2277.2
40°	4300.9	4286.3	4215.9	4119.1	3991.7	3931.9	3869.6	3556.4	3348.7	3281.7	2459.6
42.5°	4332.7	4315.5	4269.0	4223.9	4146.9	4099.8	4166.8	3841.7	3630.7	3573.0	2668.0
45°	4238.5	4228.5	4224.6	4257.1	4271.0	4284.3	4449.5	4157.5	3941.9	3898.1	2930.1
47.5°	4011.6	4008.9	4044.1	4179.4	4326.7	4466.7	4756.7	4547.0	4345.3	4298.2	3296.3
50°	3592.2	3619.4	3717.6	3955.2	4249.8	4570.2	5044.0	5087.1	4998.2	4929.2	3774.0
52.5°	2936.7	2989.1	3209.4	3570.3	3993.7	4541.0	5176.7	5519.7	5610.6	5539.0	4116.4
55°	2304.4	2353.5	2549.9	3007.7	3572.3	4318.8	5182.7	5669.0	5867.4	5801.1	4348.0
57.5°	1716.5	1761.6	1940.1	2378.0	2999.1	3881.5	5040.7	5752.0	6172.0	6129.5	4713.6
60°	1122.0	1166.4	1327.7	1710.5	2326.3	3244.6	4691.0	5734.7	6586.6	6582.7	5162.8
62.5°	622.4	657.5	774.3	1072.9	1623.6	2512.7	4141.6	5561.5	6988.1	7013.3	5533.0
65°	318.5	341.0	412.0	589.9	982.7	1781.5	3419.1	5164.7	7173.8	7237.5	5630.5
67.5°	208.3	215.6	232.9	306.5	526.2	1120.7	2573.1	4528.4	6912.4	6986.7	5303.4
70°	169.2	175.2	185.1	204.4	271.4	595.2	1690.0	3616.8	5775.8	5826.3	4223.2
72.5°	124.1	132.0	151.3	163.9	195.7	326.4	879.1	2374.0	3966.5	4055.4	2654.0
75°	91.6	96.2	112.1	129.4	159.9	206.4	336.4	1248.1	2048.2	1996.5	1114.7
77.5°	55.1	58.4	71.7	82.9	114.1	128.7	117.4	461.1	623.0	585.9	269.4
80°	27.2	30.5	47.1	62.4	73.0	51.8	49.1	128.7	138.7	138.7	67.7
82.5°	9.3	11.9	25.2	41.1	35.8	19.9	23.2	33.2	37.2	39.1	19.9
85°	0.0	0.0	6.0	11.9	5.3	2.7	6.0	7.3	9.3	10.0	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.7
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°	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	678.1	646.9	599.8	557.3	524.8	494.3	471.1	452.5	449.2	438.6	439.9
5°	708.6	652.2	565.3	498.3	451.2	419.3	392.8	372.9	364.3	355.6	349.0
7.5°	755.7	674.1	552.0	470.4	415.4	366.3	325.1	291.9	276.0	266.1	259.4
10°	813.5	704.6	552.7	453.8	372.2	297.3	240.9	204.4	187.1	181.8	181.1
12.5°	882.5	743.1	558.0	426.6	309.9	220.9	178.5	161.9	156.6	151.9	151.9
15°	955.5	786.3	558.0	376.9	236.2	172.5	154.6	144.0	137.3	134.7	133.4
17.5°	1032.4	826.7	544.7	308.5	181.1	151.9	137.3	127.4	122.1	118.1	116.8
20°	1114.7	865.2	511.6	236.2	155.3	136.0	122.1	112.1	106.8	102.8	102.8
22.5°	1198.3	901.0	457.8	181.8	137.3	120.8	107.5	98.2	92.9	88.9	88.9
25°	1275.9	924.9	388.8	150.0	124.1	107.5	95.5	86.3	80.3	77.6	76.3
27.5°	1348.2	940.2	312.5	132.0	111.5	96.2	83.6	75.0	70.3	68.3	67.0
30°	1423.2	944.2	238.9	120.1	100.9	84.9	73.0	66.4	62.4	59.7	59.7
32.5°	1496.2	939.5	182.5	110.1	91.6	75.0	65.0	59.1	55.7	53.7	53.1
35°	1570.5	918.3	148.0	101.5	82.3	65.7	57.7	53.1	51.1	48.4	48.4
37.5°	1651.5	889.8	128.7	92.9	73.0	59.1	51.8	48.4	45.8	43.8	43.1
40°	1752.3	856.6	118.1	85.6	64.4	53.1	46.4	43.1	41.1	39.1	38.5
42.5°	1871.8	824.1	112.8	77.6	57.7	47.1	41.8	37.8	35.8	33.2	32.5
45°	2041.0	816.8	106.8	69.0	51.8	42.5	36.5	32.5	29.9	27.9	27.2
47.5°	2313.0	837.3	96.9	59.7	45.8	37.2	31.2	27.9	24.5	22.6	21.2
50°	2583.0	832.0	86.9	51.8	40.5	31.8	26.5	23.2	19.9	17.9	17.3
52.5°	2730.3	806.8	77.6	45.8	35.2	27.2	22.6	18.6	16.6	14.6	13.9
55°	2863.7	796.9	68.3	39.8	29.9	23.9	18.6	15.3	13.9	11.9	11.3
57.5°	3125.1	820.1	60.4	34.5	25.9	20.6	15.9	12.6	11.3	9.3	8.6
60°	3398.5	822.7	51.8	29.9	22.6	17.3	12.6	10.0	8.6	6.6	6.0
62.5°	3541.1	755.7	42.5	25.2	18.6	14.6	10.6	8.0	6.6	4.0	4.0
65°	3421.7	611.1	35.8	20.6	14.6	11.3	8.0	6.0	4.0	2.0	0.7
67.5°	3028.3	434.6	29.9	16.6	10.6	8.0	6.0	4.0	0.7	0.0	0.0
70°	2217.4	248.2	23.2	11.9	8.0	5.3	4.0	2.0	0.0	0.0	0.0
72.5°	1362.8	132.7	17.3	8.0	6.0	4.0	3.3	1.3	0.0	0.0	0.0
75°	516.9	63.7	10.6	5.3	4.6	3.3	2.0	0.7	0.0	0.0	0.0
77.5°	140.0	31.2	6.0	4.0	3.3	2.0	1.3	0.0	0.0	0.0	0.0
80°	36.5	14.6	4.0	2.7	2.0	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	6.6	2.0	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.7	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	0.7	0.7	0.7	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)