

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: P632249

Luminaire Tested: GWS-SA2C-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7655.1 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

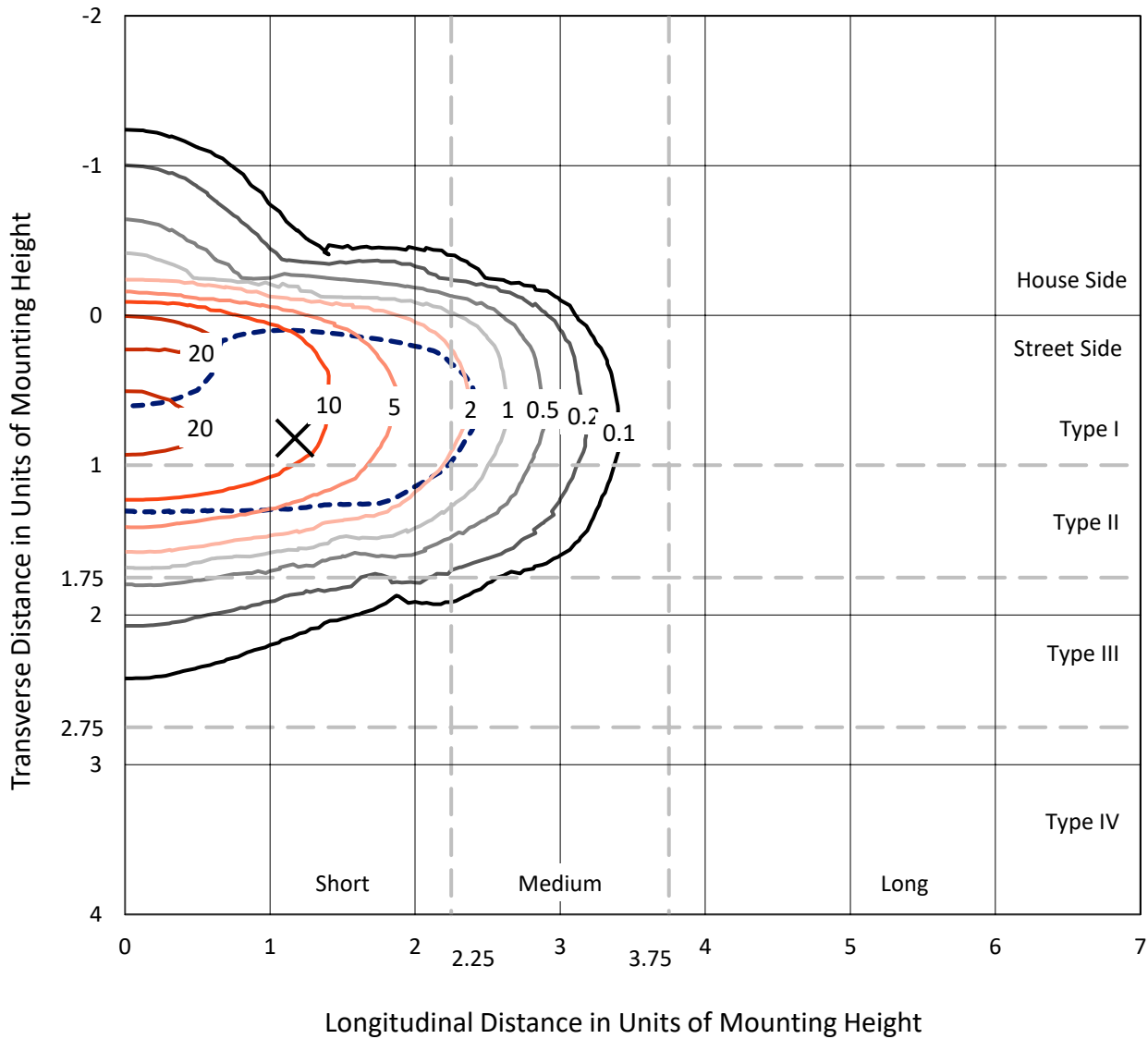
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632249
 CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

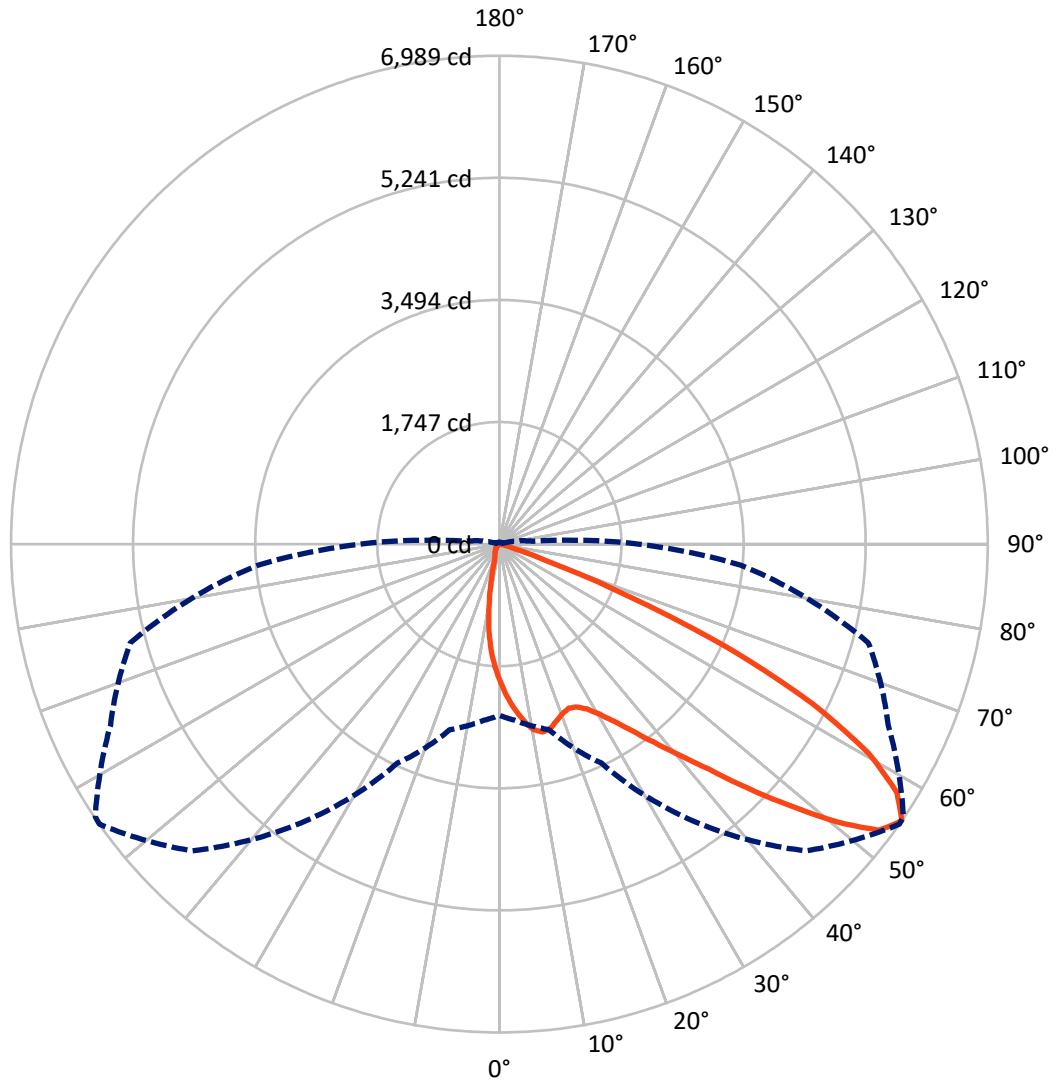
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.9 fc
 Type II - Short - N/A

REPORT NUMBER: P632249
CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632249

CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-HSS

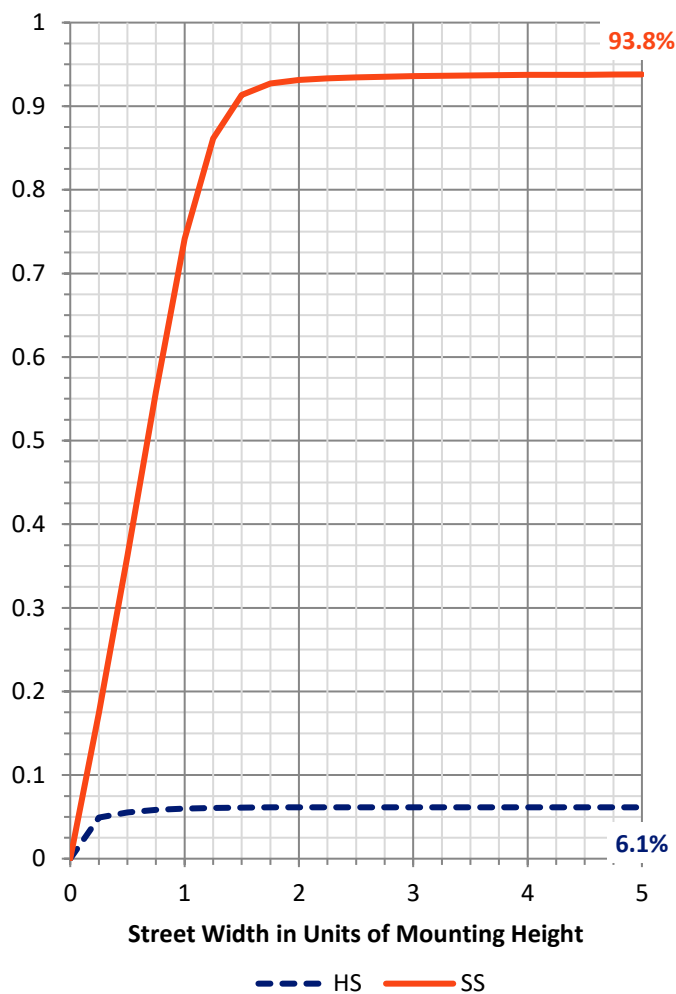
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	472.4	0.0	472.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7182.7	0.0	7182.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	7655.1	0.0	7655.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	2.3
10°-20°	421.4	5.5
20°-30°	701.7	9.2
30°-40°	1195.8	15.6
40°-50°	1951.9	25.5
50°-60°	2043.6	26.7
60°-70°	1030.7	13.5
70°-80°	130.2	1.7
80°-90°	4.9	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°	7655.1	100.0
0°-180°	7655.1	100.0

Coefficient of Utilization



REPORT NUMBER: P632249

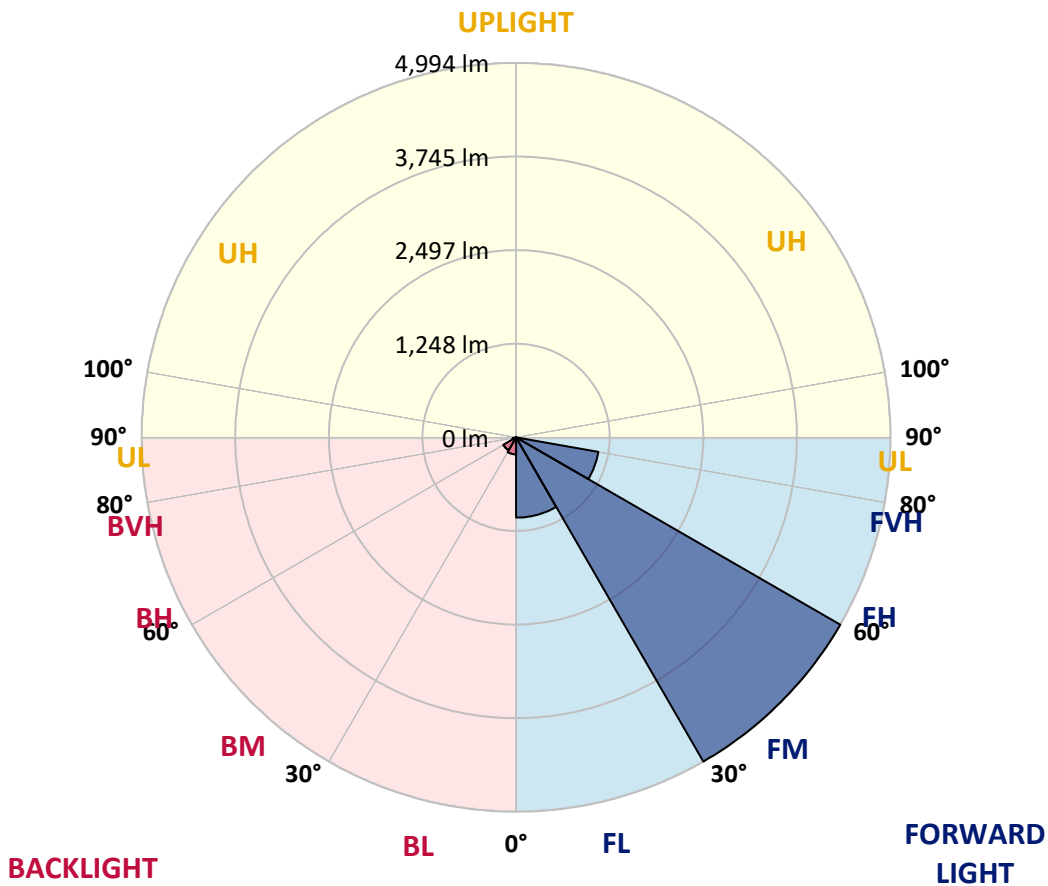
CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.8	14.0			
FM (30°-60°)	4993.8	65.2			
FH (60°-80°)	1113.6	14.5			G1/1800
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	227.0	3.0	B1/500		
BM (30°-60°)	197.5	2.6	B0/220		
BH (60°-80°)	47.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P632249

CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6
2.5°	2305.5	2294.4	2311.4	2291.7	2258.4	2230.2	2193.6	2180.5	2121.6	2066.0	2012.3
5°	2585.6	2588.8	2583.6	2556.1	2509.0	2456.7	2382.7	2366.3	2263.6	2157.6	2043.1
7.5°	2654.9	2653.0	2664.1	2674.6	2666.7	2640.5	2560.1	2543.7	2416.1	2257.1	2090.2
10°	2441.0	2442.3	2465.2	2535.8	2623.5	2714.5	2702.1	2692.9	2567.9	2369.6	2142.5
12.5°	2138.6	2150.4	2174.6	2275.4	2423.9	2630.7	2759.0	2768.2	2707.3	2493.3	2204.1
15°	2007.7	2010.4	2030.0	2090.8	2201.4	2456.7	2734.8	2760.3	2823.8	2617.6	2270.8
17.5°	2004.5	2007.7	2016.2	2043.1	2115.1	2319.9	2656.9	2701.4	2911.5	2751.1	2350.6
20°	2127.5	2125.5	2119.6	2105.2	2136.7	2274.7	2584.9	2634.0	2959.2	2881.4	2431.1
22.5°	2350.6	2348.0	2321.8	2262.3	2236.8	2316.0	2549.6	2594.1	2988.0	2997.2	2497.2
25°	2607.8	2626.2	2577.1	2486.8	2423.9	2421.3	2581.0	2612.4	3012.9	3099.9	2542.4
27.5°	2889.9	2895.8	2853.9	2752.5	2661.5	2590.2	2672.0	2695.5	3040.4	3191.6	2567.9
30°	3199.4	3197.5	3149.7	3031.9	2921.3	2818.5	2825.1	2834.3	3104.5	3296.3	2596.0
32.5°	3586.2	3594.7	3509.6	3349.3	3216.4	3074.4	3025.3	3026.7	3220.4	3431.1	2638.6
35°	4111.7	4090.7	3978.2	3749.8	3523.3	3370.2	3286.5	3279.3	3399.0	3612.3	2712.5
37.5°	4612.3	4614.3	4496.5	4245.2	3959.2	3717.7	3599.3	3579.6	3650.3	3863.6	2835.6
40°	4959.8	4966.3	4917.2	4785.7	4482.7	4141.1	3967.0	3946.8	3976.2	4181.7	2996.5
42.5°	5143.7	5162.0	5175.7	5206.5	4976.8	4669.9	4402.2	4400.3	4369.5	4544.2	3183.1
45°	5150.9	5178.4	5262.1	5472.2	5498.4	5273.2	4982.0	4938.2	4819.7	4932.3	3349.9
47.5°	4866.2	4929.7	5107.7	5523.9	5798.7	5873.3	5584.7	5557.9	5225.5	5239.2	3474.9
50°	4202.6	4268.7	4596.6	5258.8	5874.6	6349.7	6246.4	6190.7	5564.5	5442.1	3535.1
52.5°	3522.0	3582.2	3804.7	4628.0	5559.9	6499.6	6803.9	6737.8	5868.8	5512.8	3510.3
55°	2450.8	2531.3	2748.5	3459.2	4834.8	6207.7	6988.5	6974.7	6140.3	5468.3	3471.6
57.5°	1201.5	1281.3	1497.9	2132.7	3581.6	5419.8	6706.4	6779.0	6302.6	5420.5	3440.2
60°	501.9	534.7	609.3	935.8	2003.8	4096.0	6069.7	6170.4	6203.2	5355.7	3437.0
62.5°	291.2	296.4	304.3	388.1	779.4	2348.0	5035.0	5178.4	5680.3	5270.0	3385.3
65°	219.9	221.8	218.6	238.2	322.0	890.7	3637.9	3832.9	4741.2	4934.9	3181.1
67.5°	180.6	180.6	172.1	176.0	202.2	333.7	2008.4	2280.6	3508.3	4056.0	2626.8
70°	144.0	147.2	143.3	138.1	144.6	184.5	714.6	886.1	2043.1	2395.1	1532.0
72.5°	109.3	109.3	115.8	111.9	107.3	115.8	249.3	280.1	820.0	998.6	553.0
75°	84.4	87.0	91.6	87.7	81.1	68.7	119.8	127.0	247.4	232.3	123.7
77.5°	43.2	43.8	58.2	64.1	60.2	41.9	52.4	57.6	80.5	72.0	45.8
80°	26.2	27.5	32.7	50.4	39.9	22.2	21.6	22.9	38.0	32.7	19.0
82.5°	11.1	11.8	18.3	18.3	16.4	8.5	8.5	8.5	18.3	17.0	7.9
85°	0.0	0.0	3.3	2.6	2.6	3.3	3.3	3.3	4.6	6.5	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632249
 CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6	1977.6
2.5°	1977.6	1935.7	1879.5	1828.4	1759.7	1721.1	1667.4	1623.6	1586.3	1574.5	1569.3
5°	1978.3	1906.3	1785.9	1665.5	1517.6	1401.1	1281.3	1186.4	1108.6	1083.7	1077.2
7.5°	1991.4	1885.4	1690.3	1471.8	1224.4	1020.2	837.6	674.0	598.1	572.6	567.4
10°	2009.0	1867.7	1579.7	1239.5	884.1	621.7	440.4	335.7	286.0	258.5	262.4
12.5°	2031.9	1853.3	1457.4	988.2	585.0	341.6	242.1	202.9	192.4	187.2	184.5
15°	2062.7	1836.3	1305.5	738.8	358.6	219.9	186.5	176.0	172.1	169.5	168.8
17.5°	2094.1	1816.6	1151.1	519.6	238.2	182.6	167.5	162.3	159.7	157.7	157.1
20°	2127.5	1783.3	969.8	358.0	187.8	164.3	154.4	148.6	145.3	142.0	141.4
22.5°	2141.9	1729.6	796.4	250.6	166.9	151.2	138.7	131.5	127.6	125.0	125.0
25°	2128.1	1642.6	617.1	190.4	151.8	136.8	124.3	116.5	113.2	110.6	110.6
27.5°	2091.5	1530.7	450.2	157.7	135.5	121.7	109.9	102.7	100.1	98.8	98.8
30°	2050.9	1389.3	317.4	135.5	117.1	106.0	96.2	91.6	91.0	89.7	89.7
32.5°	2016.2	1257.1	218.6	119.1	103.4	92.3	85.7	83.8	84.4	83.1	83.8
35°	1997.3	1127.5	162.3	106.0	92.3	81.8	78.5	78.5	78.5	77.9	77.9
37.5°	2005.1	999.9	132.2	96.9	82.5	74.6	71.3	72.6	73.9	73.9	73.9
40°	2044.4	886.7	117.1	88.3	73.9	68.1	65.4	67.4	69.4	70.7	70.7
42.5°	2094.1	795.1	106.0	81.1	68.1	61.5	60.2	62.2	64.1	65.4	65.4
45°	2125.5	702.8	94.9	72.0	62.2	54.3	54.3	56.9	56.3	56.9	56.9
47.5°	2139.9	629.5	83.8	62.2	53.0	47.1	47.8	49.1	47.8	49.1	49.1
50°	2104.6	555.6	73.9	51.7	43.8	41.2	42.5	41.9	41.9	44.5	44.5
52.5°	2039.8	500.6	65.4	43.8	37.3	36.6	38.0	35.3	36.0	36.0	35.3
55°	1992.0	469.2	58.2	38.0	32.1	32.7	32.1	27.5	24.9	22.2	21.6
57.5°	1968.5	456.8	53.0	34.0	28.8	28.8	26.2	19.0	14.4	11.1	9.8
60°	1963.2	441.7	47.8	29.4	25.5	24.2	19.0	11.1	7.2	5.2	4.6
62.5°	1913.5	405.1	43.2	23.6	22.2	19.6	11.8	6.5	3.9	2.6	2.0
65°	1750.5	333.1	38.6	18.3	17.0	14.4	7.2	3.9	2.0	0.7	0.0
67.5°	1392.6	236.2	34.0	13.7	11.8	9.2	4.6	2.6	0.7	0.0	0.0
70°	803.0	127.6	28.1	9.8	7.9	5.9	3.3	1.3	0.0	0.0	0.0
72.5°	268.3	59.6	21.6	6.5	5.9	4.6	2.0	0.7	0.0	0.0	0.0
75°	58.9	35.3	14.4	4.6	3.9	3.3	1.3	0.0	0.0	0.0	0.0
77.5°	22.2	24.9	7.2	3.3	2.6	2.0	0.7	0.0	0.0	0.0	0.0
80°	8.5	16.4	3.3	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	6.5	2.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	3.3	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.7	0.7	0.7	0.0	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)