

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: P632753

Luminaire Tested: GWS-SA2D-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

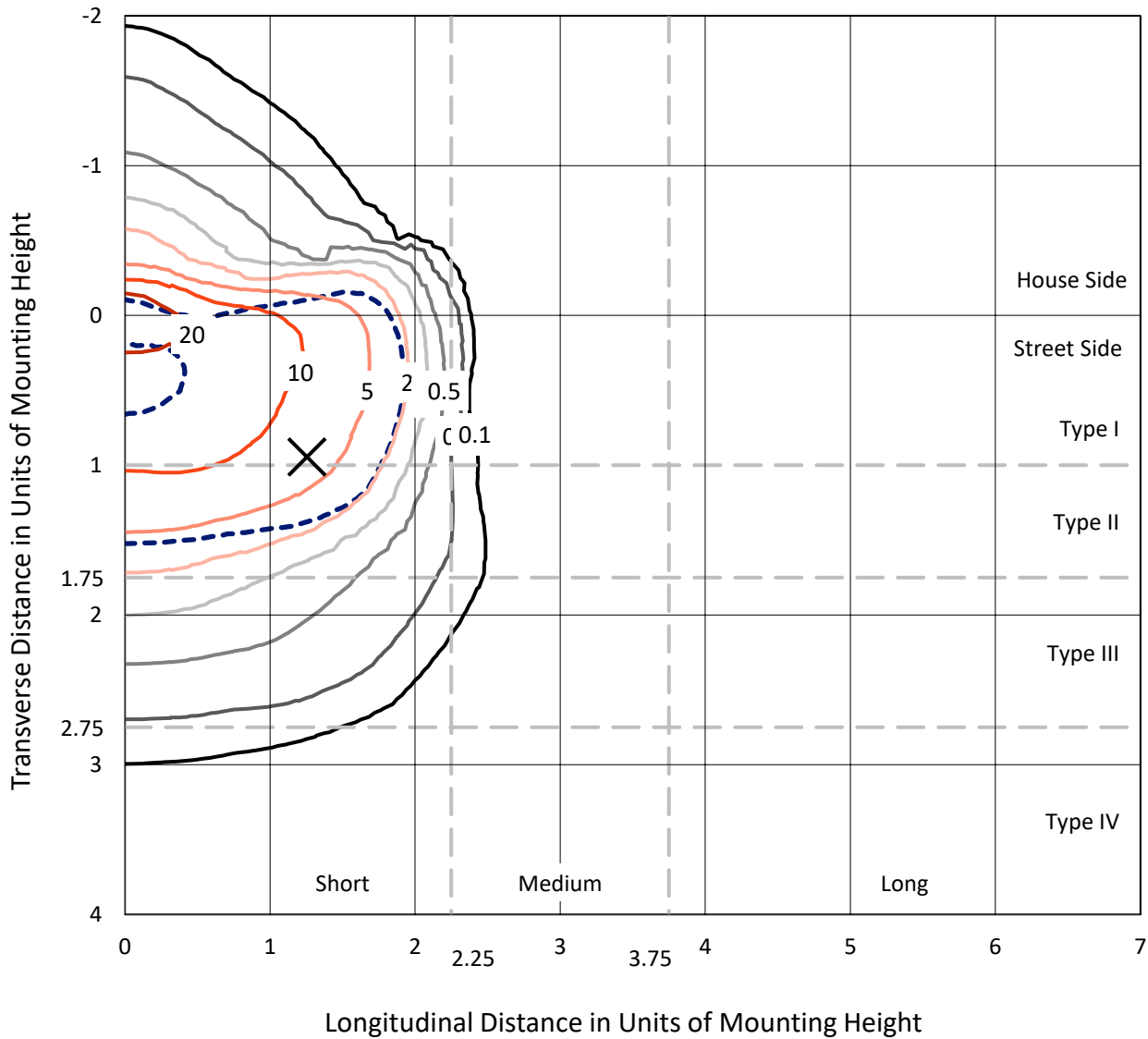
Lumens per Lamp: N/A  
Luminaire Lumens: 6735.7 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

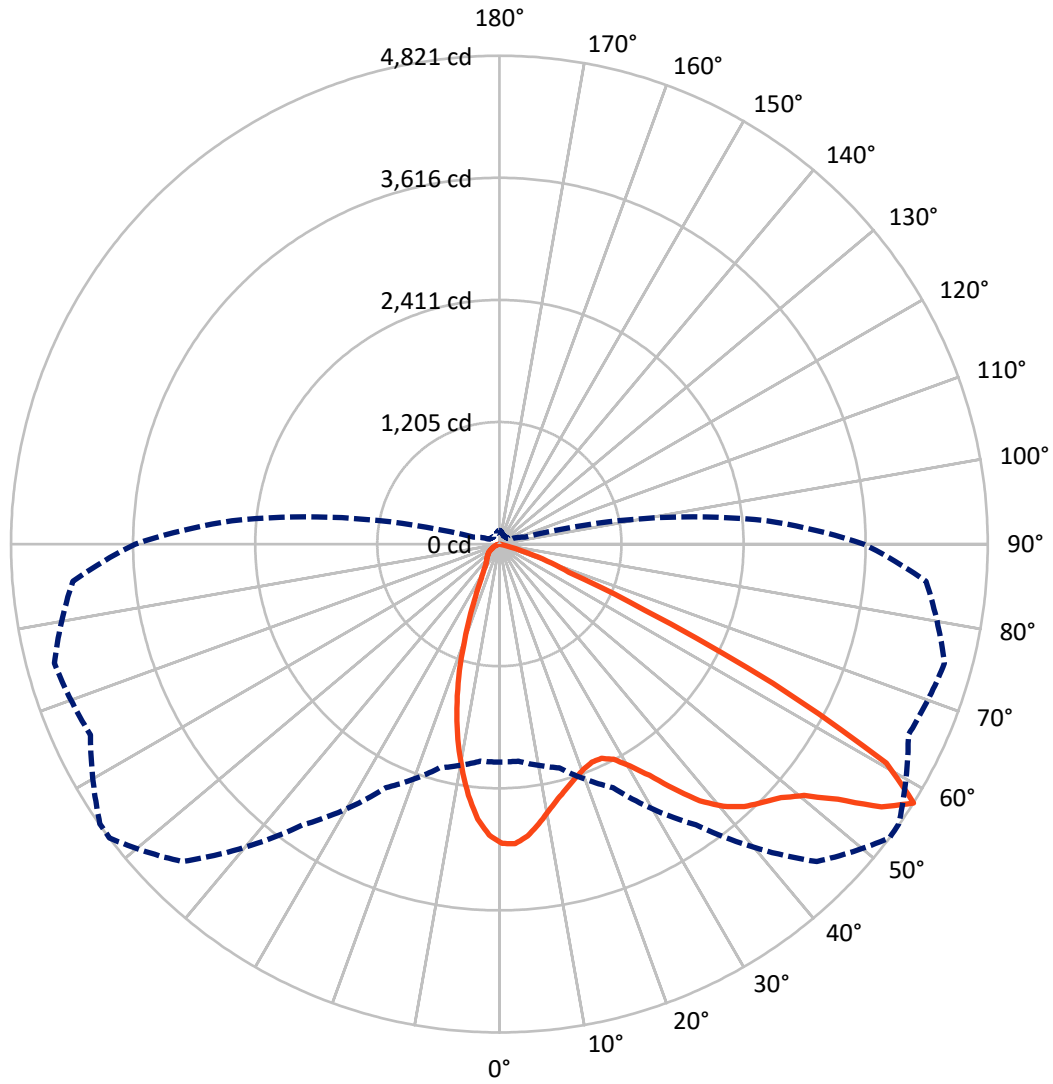
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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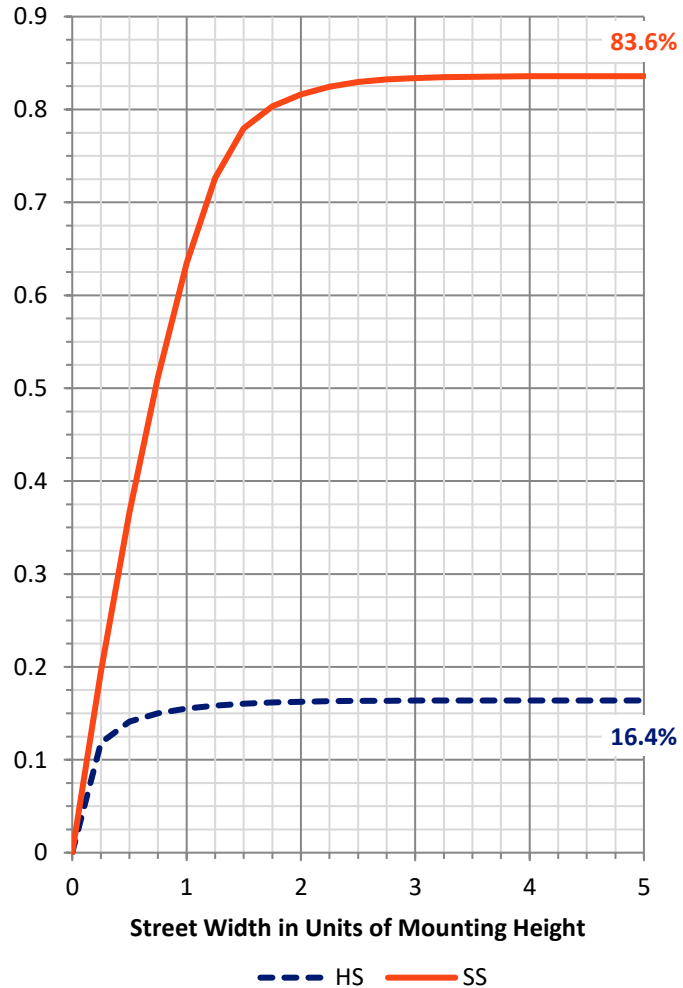
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1112.7	0.0	1112.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	5623.1	0.0	5623.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	6735.7	0.0	6735.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	3.8
10°-20°	555.0	8.2
20°-30°	723.0	10.7
30°-40°	1048.7	15.6
40°-50°	1513.2	22.5
50°-60°	1830.1	27.2
60°-70°	745.9	11.1
70°-80°	67.0	1.0
80°-90°	0.0	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°	6735.7	100.0
0°-180°	6735.7	100.0

**Coefficient of Utilization**



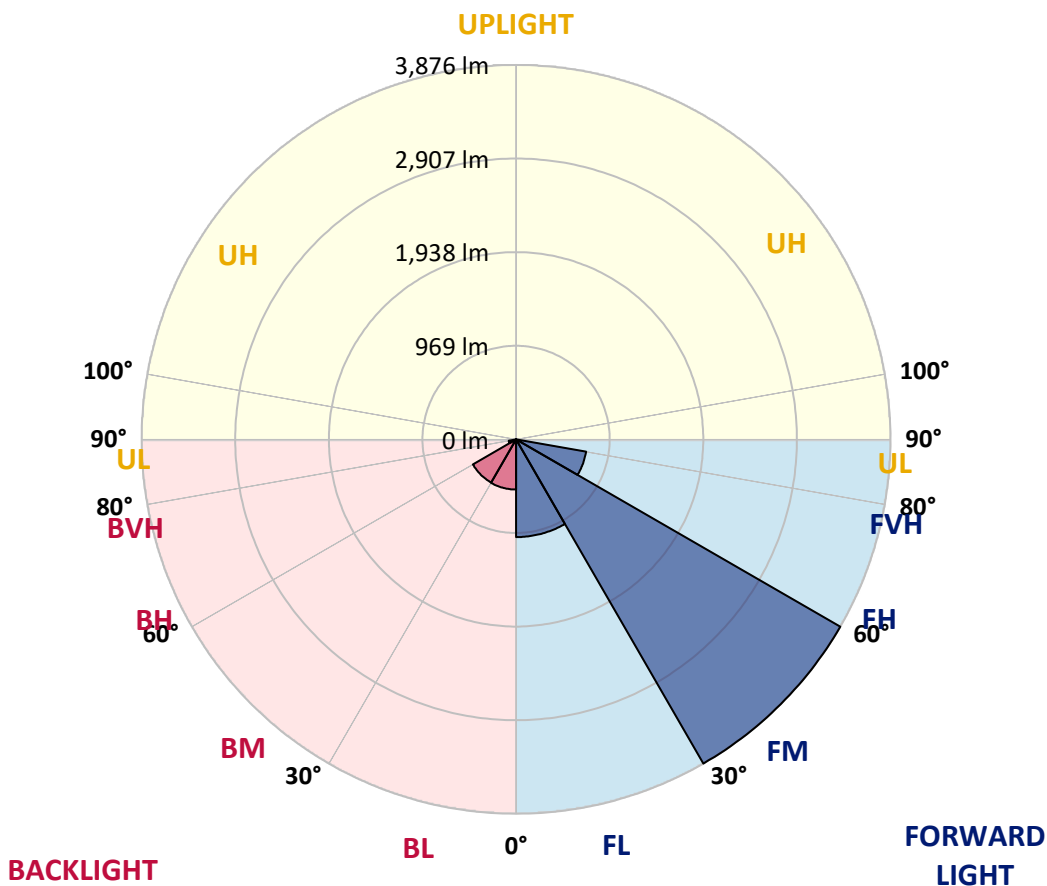
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.5	15.0			
FM (30°-60°)	3875.6	57.5			
FH (60°-80°)	736.0	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	519.3	7.7	B2/1000		
BM (30°-60°)	516.4	7.7	B1/1000		
BH (60°-80°)	76.9	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	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°	45°	53°	55°	65°	75°	85°
0°	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7
2.5°	2913.4	2920.0	2931.5	2946.4	2956.3	2961.3	2961.3	2975.3	2966.2	2958.8	2950.5
5°	2788.7	2795.3	2811.0	2835.0	2858.9	2876.2	2896.0	2910.9	2916.7	2916.7	2902.7
7.5°	2612.9	2622.0	2631.9	2664.9	2716.9	2755.7	2789.6	2811.0	2842.4	2852.3	2832.5
10°	2423.8	2432.9	2455.2	2500.6	2560.0	2617.8	2675.6	2702.9	2756.5	2784.6	2762.3
12.5°	2263.7	2267.8	2297.5	2352.0	2428.0	2507.2	2577.4	2605.5	2681.4	2723.5	2697.1
15°	2131.6	2134.1	2163.8	2224.0	2311.6	2409.0	2497.3	2526.2	2619.5	2683.1	2643.4
17.5°	2031.7	2032.5	2058.1	2123.3	2215.0	2323.1	2428.0	2463.5	2584.0	2660.8	2601.3
20°	1981.3	1978.9	1997.0	2054.0	2140.7	2248.8	2372.6	2416.4	2564.2	2657.5	2569.1
22.5°	1982.2	1976.4	1983.8	2024.3	2097.7	2199.3	2338.0	2387.5	2565.8	2671.5	2541.9
25°	2029.2	2021.0	2022.6	2044.1	2096.1	2188.5	2342.9	2395.8	2598.8	2718.6	2532.0
27.5°	2108.5	2099.4	2099.4	2110.1	2138.2	2222.4	2404.8	2465.1	2687.2	2810.2	2552.6
30°	2210.8	2201.8	2198.5	2209.2	2232.3	2309.9	2542.7	2605.5	2838.3	2960.4	2618.7
32.5°	2328.1	2317.3	2323.1	2338.0	2360.3	2467.6	2720.2	2803.6	3027.3	3162.7	2737.5
35°	2451.9	2442.8	2469.2	2501.4	2536.1	2686.4	2965.4	3038.0	3259.3	3414.5	2919.2
37.5°	2570.0	2565.8	2621.1	2688.8	2760.7	2948.9	3214.7	3270.8	3458.3	3688.6	3141.2
40°	2688.0	2687.2	2782.1	2901.0	3015.8	3210.6	3403.8	3450.0	3579.6	3901.6	3354.2
42.5°	2820.1	2820.1	2951.4	3109.9	3262.6	3431.8	3542.5	3563.1	3634.1	4024.6	3514.4
45°	2946.4	2953.8	3105.7	3289.8	3470.6	3604.4	3638.2	3639.9	3656.4	4097.2	3647.3
47.5°	3046.3	3052.9	3234.5	3446.7	3641.5	3735.6	3740.6	3733.2	3715.0	4166.6	3749.7
50°	3127.2	3137.1	3327.0	3551.5	3758.8	3861.9	3899.9	3892.5	3846.3	4240.9	3821.5
52.5°	3166.8	3180.9	3359.2	3603.5	3889.2	4078.2	4183.9	4201.3	4042.7	4282.2	3890.0
55°	2849.8	2870.5	3034.7	3369.1	3961.8	4412.6	4578.5	4575.2	4255.7	4405.2	4056.8
57.5°	2152.2	2150.6	2286.8	2652.5	3384.0	4431.6	4821.2	4814.6	4454.7	4548.0	4227.7
60°	1465.4	1455.5	1491.8	1668.4	2366.0	3610.2	4387.8	4477.0	4313.5	4201.3	3589.5
62.5°	1206.1	1197.1	1185.5	1136.8	1358.9	2248.8	3031.4	3166.8	3145.4	2920.0	2251.3
65°	987.4	994.8	1027.0	1006.4	945.3	1153.3	1573.5	1653.6	1511.6	1272.2	786.8
67.5°	728.1	731.4	773.5	882.5	849.5	767.8	740.5	753.7	441.7	203.1	131.3
70°	430.1	432.6	471.4	617.5	689.3	589.4	500.3	492.9	175.0	54.5	59.4
72.5°	243.5	238.6	246.0	293.9	375.6	312.9	257.6	234.5	52.8	30.5	30.5
75°	115.6	112.3	96.6	90.8	82.6	52.8	33.0	28.1	13.2	12.4	12.4
77.5°	0.8	2.5	1.7	2.5	2.5	1.7	0.8	0.8	2.5	2.5	3.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7	2954.7
2.5°	2935.7	2910.9	2905.1	2903.5	2880.4	2855.6	2830.0	2820.1	2805.2	2796.2	2803.6
5°	2880.4	2844.9	2813.5	2784.6	2733.4	2677.3	2628.6	2597.2	2567.5	2547.7	2552.6
7.5°	2801.9	2755.7	2683.9	2610.4	2516.3	2432.1	2338.0	2280.2	2226.5	2196.8	2210.8
10°	2718.6	2657.5	2542.7	2418.1	2270.3	2138.2	2003.6	1893.8	1830.3	1770.0	1776.6
12.5°	2636.8	2555.9	2384.2	2195.2	2008.6	1813.7	1610.7	1458.8	1354.7	1279.6	1268.1
15°	2560.9	2456.9	2229.8	1980.5	1726.2	1467.0	1207.8	990.7	870.1	795.8	790.9
17.5°	2493.2	2364.4	2069.7	1756.0	1437.3	1105.4	807.4	644.8	575.4	543.2	539.9
20°	2428.0	2271.1	1906.2	1528.1	1121.9	776.0	557.2	482.1	459.8	446.6	448.3
22.5°	2365.2	2169.6	1734.5	1275.5	841.2	544.9	431.8	402.9	400.4	402.0	402.9
25°	2312.4	2076.3	1557.8	1031.9	600.2	415.3	360.8	352.5	359.9	370.7	372.3
27.5°	2285.1	2000.3	1385.3	786.8	434.2	337.7	312.9	316.2	329.4	341.0	342.6
30°	2292.6	1943.4	1207.0	570.5	334.3	284.8	276.6	283.2	296.4	307.1	308.8
32.5°	2345.4	1914.5	1024.5	415.3	274.9	248.5	245.2	250.1	261.7	270.0	270.8
35°	2450.2	1921.1	851.1	317.8	236.1	221.2	220.4	223.7	229.5	235.3	236.1
37.5°	2604.6	1974.7	680.3	264.2	213.8	203.1	199.8	199.8	203.9	206.4	208.0
40°	2770.6	2055.6	544.9	233.6	198.1	186.6	180.0	177.5	180.8	184.1	184.9
42.5°	2907.6	2136.5	442.5	212.2	185.7	170.1	161.8	160.2	164.3	170.1	171.7
45°	3012.5	2199.3	369.0	194.8	171.7	154.4	145.3	145.3	152.7	162.6	164.3
47.5°	3108.2	2249.6	314.5	179.1	158.5	140.3	131.3	132.9	145.3	158.5	161.0
50°	3173.4	2290.1	274.1	165.1	147.8	128.8	120.5	123.8	138.7	154.4	156.9
52.5°	3243.6	2339.6	247.7	152.7	137.9	119.7	112.3	114.8	131.3	148.6	151.9
55°	3437.6	2505.6	246.8	136.2	120.5	107.3	104.0	104.8	121.4	141.2	145.3
57.5°	3596.1	2651.7	263.4	114.8	100.7	94.1	92.5	93.3	108.1	130.4	135.4
60°	2975.3	2060.6	217.9	94.9	84.2	82.6	80.1	81.7	95.8	115.6	119.7
62.5°	1760.9	1178.1	104.0	72.6	71.8	70.2	67.7	71.0	84.2	101.5	104.0
65°	601.8	349.2	66.0	59.4	61.1	58.6	56.1	59.4	71.0	80.9	81.7
67.5°	115.6	92.5	52.8	49.5	50.4	45.4	44.6	47.9	54.5	56.1	55.3
70°	60.3	53.7	40.5	40.5	38.8	32.2	32.2	35.5	35.5	33.0	32.2
72.5°	31.4	29.7	26.4	29.7	24.8	19.8	19.8	21.5	19.8	16.5	16.5
75°	12.4	12.4	11.6	14.9	10.7	9.1	8.3	9.9	7.4	5.8	5.8
77.5°	3.3	3.3	3.3	4.1	2.5	2.5	1.7	1.7	0.8	0.0	0.0
80°	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)