

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: P635177

Luminaire Tested: GWS-SA3D-730-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635177  
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-SA3D-730-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

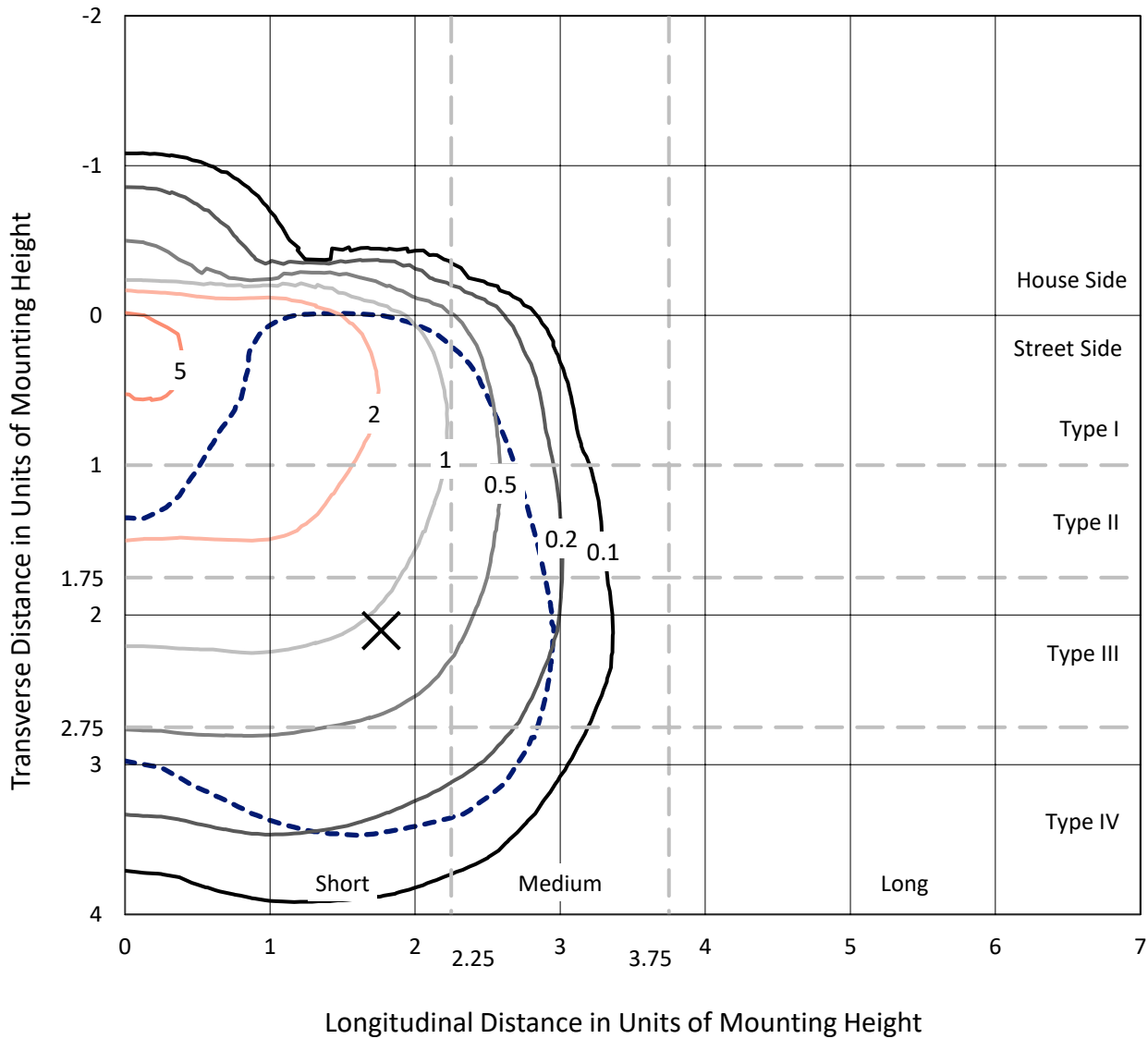
Lumens per Lamp: N/A  
Luminaire Lumens: 12626.4 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

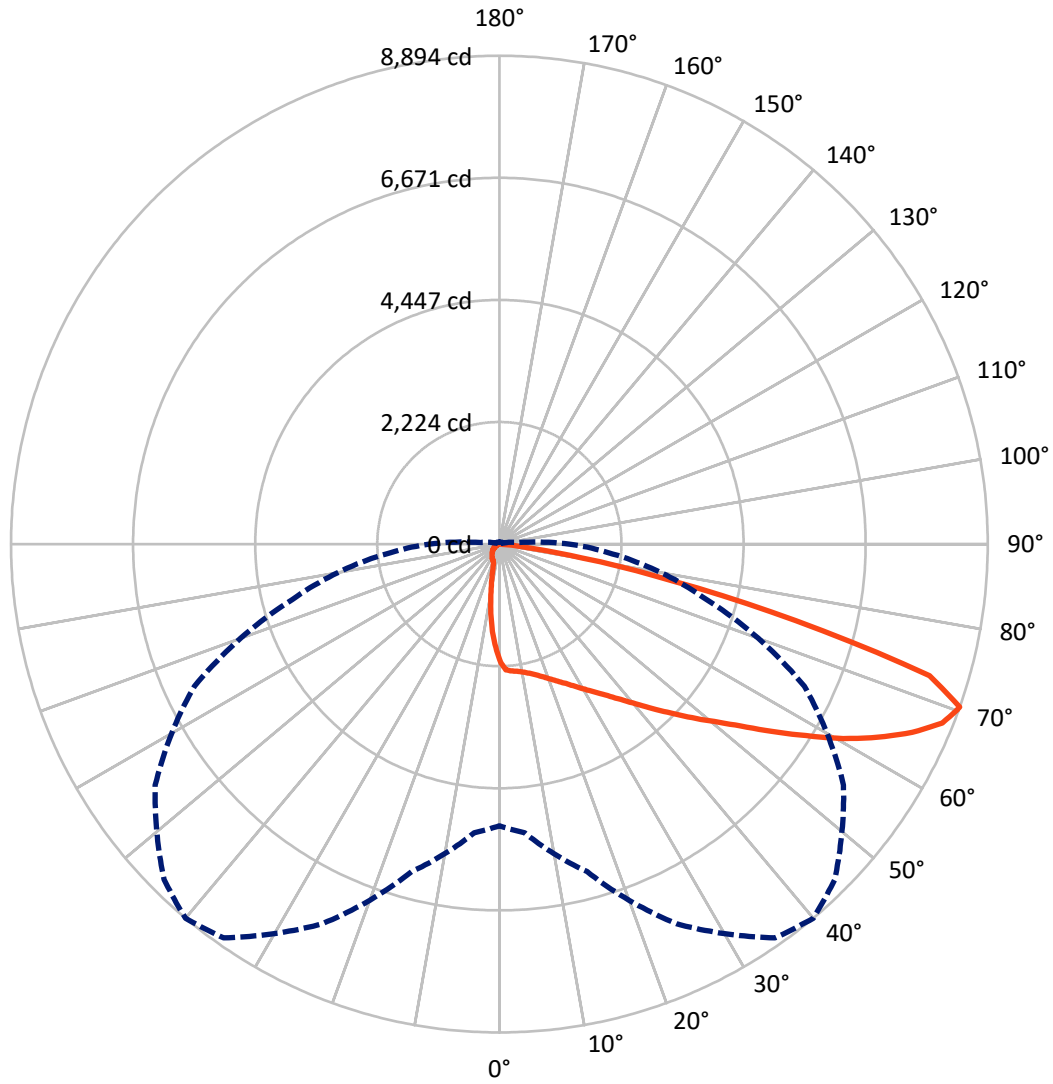
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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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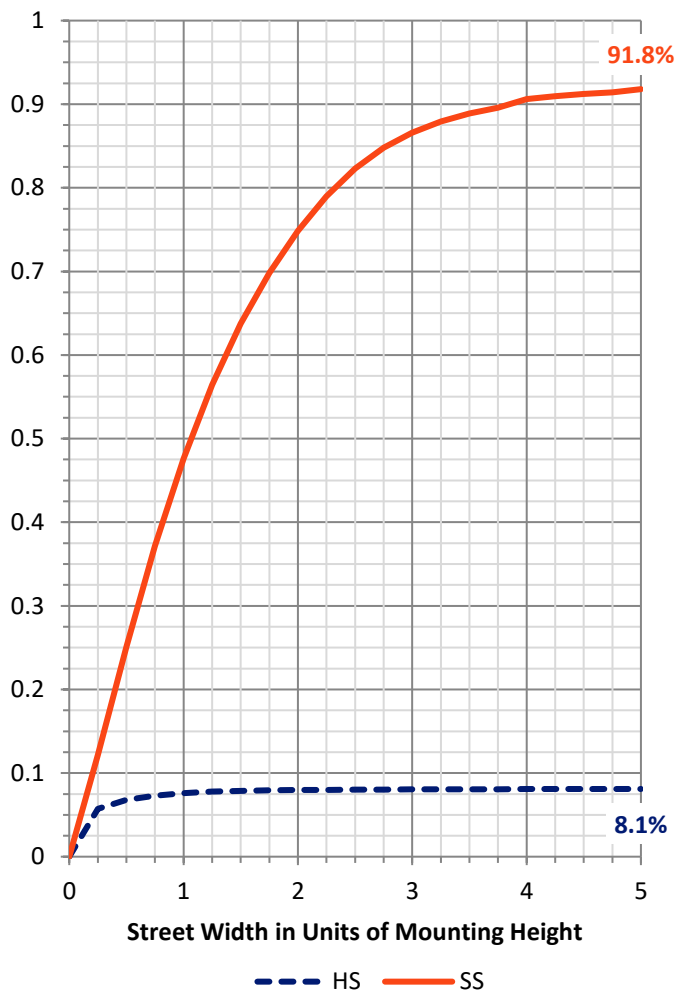
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1032.5	0.0	1032.5
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	11593.9	0.0	11593.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	12626.4	0.0	12626.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.1	1.4
10°-20°	459.3	3.6
20°-30°	768.7	6.1
30°-40°	1207.3	9.6
40°-50°	1909.7	15.1
50°-60°	2785.8	22.1
60°-70°	3453.3	27.4
70°-80°	1747.2	13.8
80°-90°	114.1	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°	12626.4	100.0
0°-180°	12626.4	100.0

**Coefficient of Utilization**



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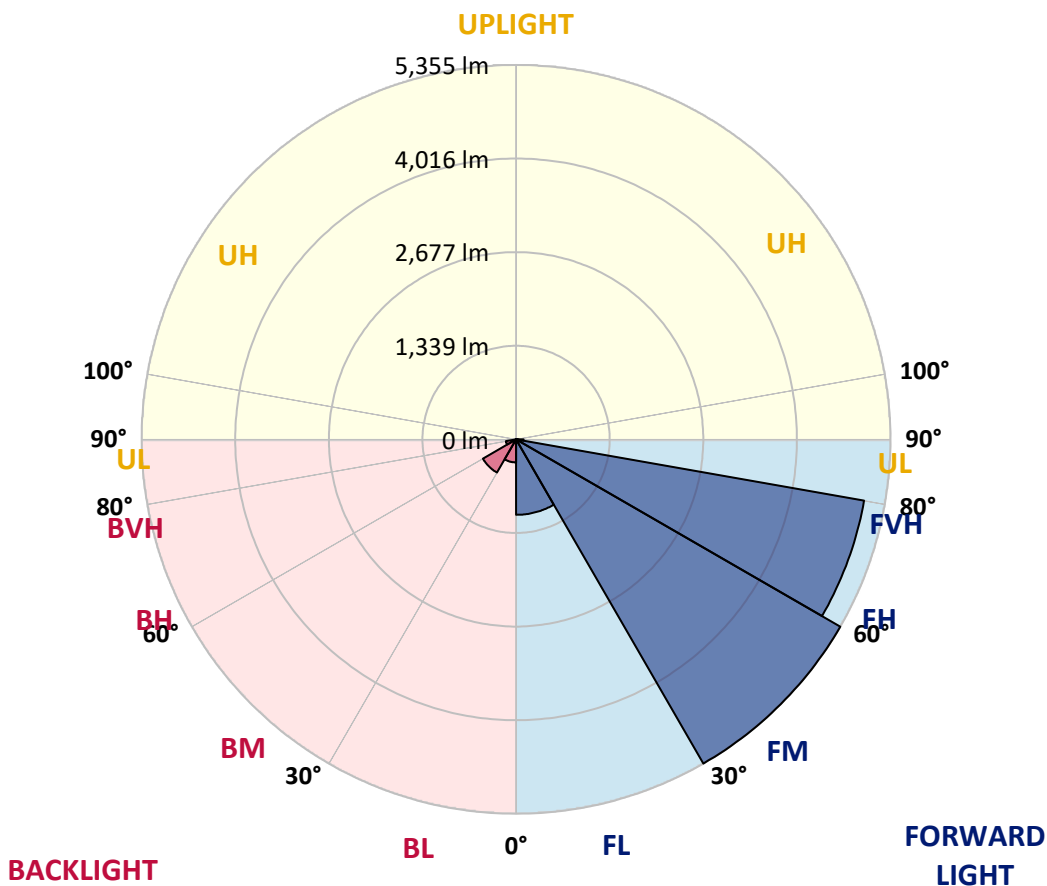
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.3	8.5			
FM (30°-60°)	5354.7	42.4			
FH (60°-80°)	5053.3	40.0			G3/7500
FVH (80°-90°)	106.5	0.8			G2/225
BL (0°-30°)	329.7	2.6	B1/500		
BM (30°-60°)	548.0	4.3	B1/1000		
BH (60°-80°)	147.2	1.2	B1/500		G1/500
BVH (80°-90°)	7.5	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5
2.5°	2303.4	2311.4	2310.3	2313.7	2305.7	2293.0	2290.7	2273.5	2242.5	2203.4	2159.8
5°	2350.5	2359.7	2352.8	2349.3	2334.4	2320.6	2317.2	2298.8	2263.2	2210.3	2134.5
7.5°	2390.7	2393.0	2388.4	2380.4	2358.5	2340.1	2327.5	2302.2	2259.7	2206.9	2119.6
10°	2397.6	2396.4	2398.7	2399.9	2386.1	2370.0	2359.7	2325.2	2271.2	2214.9	2120.7
12.5°	2389.5	2389.5	2404.5	2421.7	2421.7	2413.7	2403.3	2372.3	2309.1	2242.5	2143.7
15°	2399.9	2403.3	2432.1	2464.2	2474.6	2466.5	2461.9	2429.8	2364.3	2290.7	2185.1
17.5°	2436.6	2440.1	2486.0	2534.3	2546.9	2537.7	2528.6	2496.4	2426.3	2345.9	2232.2
20°	2490.6	2499.8	2558.4	2620.5	2631.9	2620.5	2602.1	2557.3	2487.2	2405.6	2277.0
22.5°	2589.4	2595.2	2658.4	2723.9	2729.6	2711.2	2683.6	2621.6	2548.1	2468.8	2327.5
25°	2720.4	2728.4	2791.6	2854.8	2839.9	2812.3	2774.4	2704.3	2620.5	2543.5	2391.8
27.5°	2876.6	2885.8	2947.9	3003.0	2964.0	2931.8	2889.3	2802.0	2717.0	2646.9	2474.6
30°	3045.5	3053.6	3108.7	3158.1	3106.4	3068.5	3017.9	2928.3	2842.2	2789.3	2591.7
32.5°	3208.7	3207.5	3260.4	3300.6	3247.7	3217.8	3171.9	3081.1	3012.2	2989.2	2766.4
35°	3360.3	3360.3	3404.0	3444.2	3406.3	3390.2	3347.7	3275.3	3236.2	3263.8	2999.6
37.5°	3513.1	3505.0	3546.4	3591.2	3587.8	3588.9	3564.8	3530.3	3532.6	3630.3	3320.1
40°	3639.5	3636.0	3684.3	3742.9	3788.8	3825.6	3810.6	3823.3	3895.6	4078.3	3730.2
42.5°	3740.6	3748.6	3810.6	3903.7	4019.7	4094.4	4104.7	4156.4	4342.5	4625.1	4193.2
45°	3856.6	3857.7	3943.9	4086.4	4271.3	4389.6	4431.0	4564.3	4828.5	5192.7	4701.0
47.5°	3999.0	3985.3	4081.8	4281.7	4549.3	4723.9	4797.5	4964.0	5373.0	5746.4	5114.5
50°	4156.4	4131.2	4240.3	4512.6	4860.7	5078.9	5228.3	5471.8	5913.0	6201.3	5422.4
52.5°	4339.1	4315.0	4439.0	4777.9	5234.0	5499.4	5691.3	5937.1	6375.9	6548.3	5606.2
55°	4571.2	4547.0	4678.0	5096.2	5675.2	6019.8	6220.9	6427.6	6806.8	6804.5	5739.5
57.5°	4828.5	4795.2	4976.7	5498.3	6225.5	6583.9	6788.4	6889.5	7134.2	7003.2	5829.1
60°	5123.7	5093.9	5345.5	5977.3	6860.8	7192.8	7321.4	7280.1	7403.0	7120.4	5798.1
62.5°	5390.3	5376.5	5689.0	6485.1	7466.2	7746.5	7782.1	7601.7	7600.6	7122.7	5589.0
65°	5667.1	5693.6	6157.7	7069.8	8075.1	8263.5	8202.6	7921.1	7679.9	6841.2	4970.9
67.5°	5770.5	5847.5	6466.7	7598.3	8555.3	8702.3	8595.5	8080.8	7350.1	5894.6	3785.4
70°	5131.8	5276.5	6174.9	7628.2	8754.0	8894.2	8638.0	7651.1	6127.8	3904.8	2073.6
72.5°	3902.5	4071.4	5145.6	6246.1	7872.9	8192.2	7754.5	6233.5	3949.6	1710.6	696.2
75°	2183.9	2366.6	3832.5	4703.3	5285.7	5577.5	5416.7	3999.0	1749.7	446.9	207.9
77.5°	738.7	799.6	1783.0	2910.0	3489.0	3227.0	2731.9	1986.3	643.3	170.0	110.3
80°	437.7	460.7	664.0	1448.7	1835.8	1522.2	1201.7	734.1	327.4	90.8	77.0
82.5°	131.0	155.1	366.5	537.6	719.2	448.0	379.1	419.3	170.0	49.4	64.3
85°	0.0	0.0	78.1	166.6	188.4	73.5	73.5	237.8	31.0	20.7	47.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.7	3.4	4.6	10.3
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°	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5
2.5°	2128.8	2088.6	2041.5	1996.6	1954.1	1899.0	1872.6	1840.4	1812.8	1797.9	1805.9
5°	2086.3	2023.1	1926.6	1828.9	1730.1	1637.1	1553.2	1496.9	1446.4	1419.9	1425.7
7.5°	2049.5	1964.5	1814.0	1654.3	1495.8	1336.1	1206.3	1105.2	1027.0	994.9	989.1
10°	2033.4	1926.6	1714.0	1484.3	1240.7	1025.9	842.1	730.6	651.4	612.3	619.2
12.5°	2041.5	1907.0	1629.0	1317.7	1001.8	751.3	575.6	471.0	414.7	391.7	386.0
15°	2064.4	1902.4	1553.2	1147.7	773.2	525.0	397.5	355.0	343.5	341.2	341.2
17.5°	2090.9	1903.6	1475.1	975.3	587.0	389.4	340.1	332.0	328.6	326.3	327.4
20°	2117.3	1903.6	1385.5	800.7	441.1	336.6	324.0	318.2	314.8	313.6	313.6
22.5°	2149.4	1903.6	1285.5	638.7	353.8	319.4	309.0	305.6	302.1	301.0	299.8
25°	2188.5	1904.7	1175.2	499.7	321.7	304.4	296.4	292.9	289.5	287.2	287.2
27.5°	2244.8	1913.9	1053.5	389.4	303.3	290.7	283.8	280.3	276.9	273.4	273.4
30°	2326.4	1936.9	916.8	321.7	286.1	275.7	268.8	266.5	263.1	259.6	258.5
32.5°	2448.1	1977.1	775.5	288.4	270.0	259.6	251.6	249.3	245.8	242.4	241.3
35°	2618.2	2050.6	637.6	267.7	249.3	239.0	234.4	233.2	228.6	225.2	225.2
37.5°	2867.5	2170.1	505.5	247.0	232.1	224.0	218.3	216.0	211.4	207.9	206.8
40°	3171.9	2325.2	392.9	230.9	216.0	207.9	202.2	198.7	193.0	188.4	186.1
42.5°	3560.2	2514.8	310.2	213.7	201.0	193.0	188.4	181.5	173.5	166.6	165.4
45°	3964.6	2710.1	256.2	197.6	187.3	180.4	174.6	165.4	153.9	145.9	143.6
47.5°	4274.8	2831.8	224.0	180.4	172.3	166.6	159.7	148.2	134.4	125.2	122.9
50°	4496.5	2850.2	199.9	164.3	159.7	153.9	143.6	129.8	114.9	105.7	103.4
52.5°	4605.6	2767.5	180.4	149.3	145.9	140.2	127.5	112.6	96.5	87.3	85.0
55°	4655.0	2611.3	162.0	136.7	132.1	125.2	111.4	95.4	79.3	71.2	68.9
57.5°	4635.5	2380.4	145.9	124.1	118.3	110.3	95.4	78.1	65.5	57.4	56.3
60°	4490.7	2056.4	129.8	111.4	104.5	95.4	80.4	64.3	52.8	47.1	46.0
62.5°	4178.3	1654.3	113.7	96.5	91.9	82.7	68.9	52.8	43.7	40.2	39.1
65°	3538.4	1169.5	97.6	81.6	79.3	70.1	57.4	43.7	37.9	35.6	34.5
67.5°	2543.5	711.1	82.7	70.1	67.8	59.7	48.3	37.9	34.5	33.3	33.3
70°	1278.6	336.6	65.5	57.4	57.4	49.4	41.4	34.5	33.3	32.2	32.2
72.5°	434.3	143.6	49.4	44.8	47.1	42.5	35.6	32.2	32.2	32.2	32.2
75°	148.2	75.8	34.5	32.2	34.5	34.5	31.0	31.0	32.2	32.2	32.2
77.5°	96.5	50.5	24.1	21.8	26.4	26.4	26.4	28.7	31.0	31.0	31.0
80°	79.3	27.6	16.1	14.9	19.5	19.5	21.8	26.4	28.7	28.7	28.7
82.5°	67.8	17.2	9.2	10.3	13.8	14.9	18.4	21.8	25.3	26.4	26.4
85°	46.0	9.2	6.9	8.0	9.2	11.5	14.9	18.4	20.7	23.0	23.0
87.5°	12.6	3.4	4.6	5.7	5.7	8.0	11.5	13.8	16.1	17.2	17.2
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)