

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: P634230

Luminaire Tested: GWS-SA3B-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-735-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

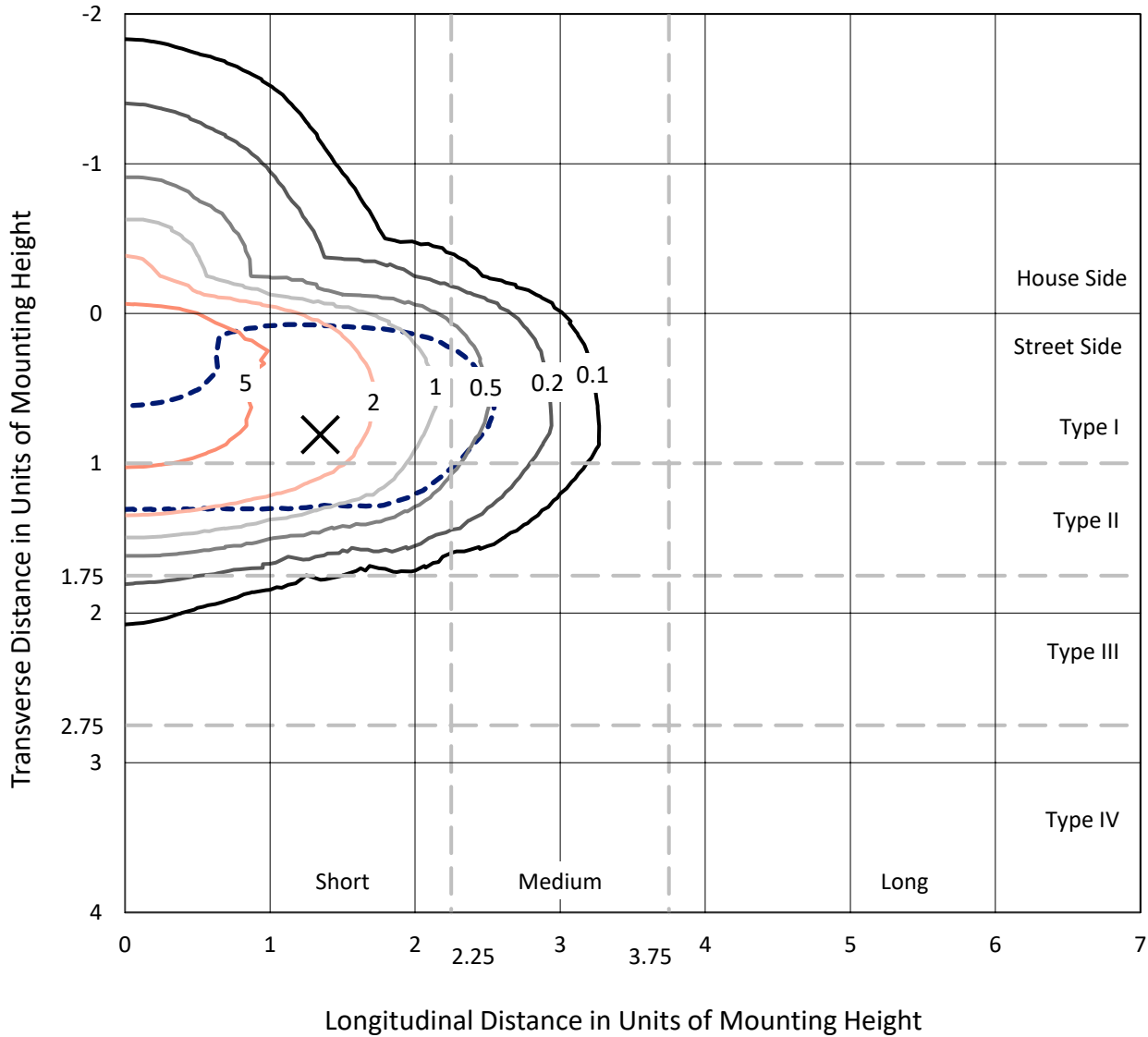
Lumens per Lamp: N/A  
Luminaire Lumens: 10446.8 lumens  
Efficiency: N/A  
Efficacy: 153.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

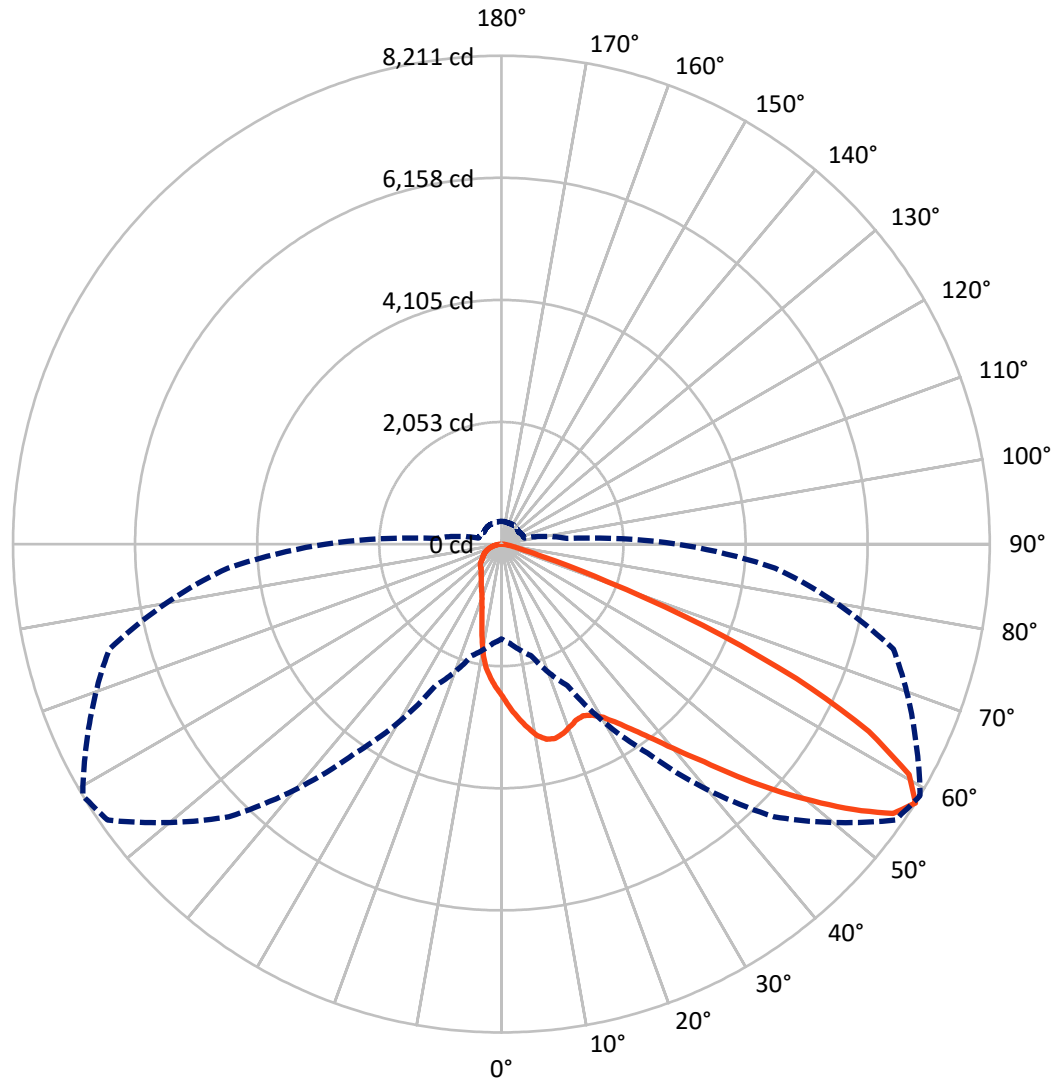
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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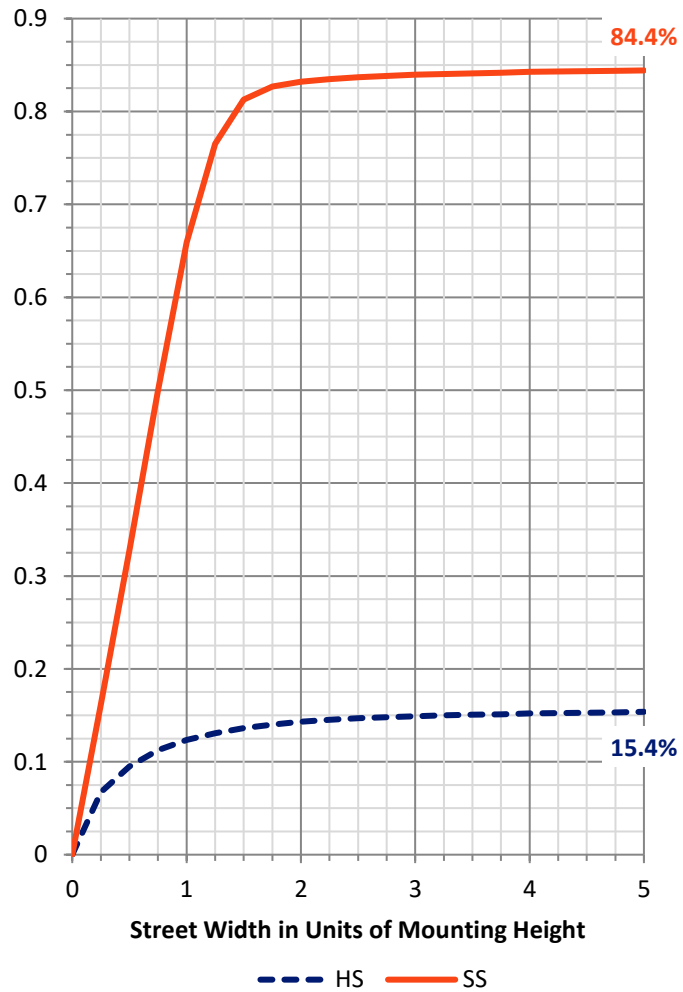
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1621.3	0.0	1621.3
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	8825.5	0.0	8825.5
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	10446.8	0.0	10446.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.1	2.3
10°-20°	603.4	5.8
20°-30°	978.1	9.4
30°-40°	1573.4	15.1
40°-50°	2443.3	23.4
50°-60°	2631.8	25.2
60°-70°	1527.4	14.6
70°-80°	398.7	3.8
80°-90°	52.5	0.5
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°	10446.8	100.0
0°-180°	10446.8	100.0

**Coefficient of Utilization**



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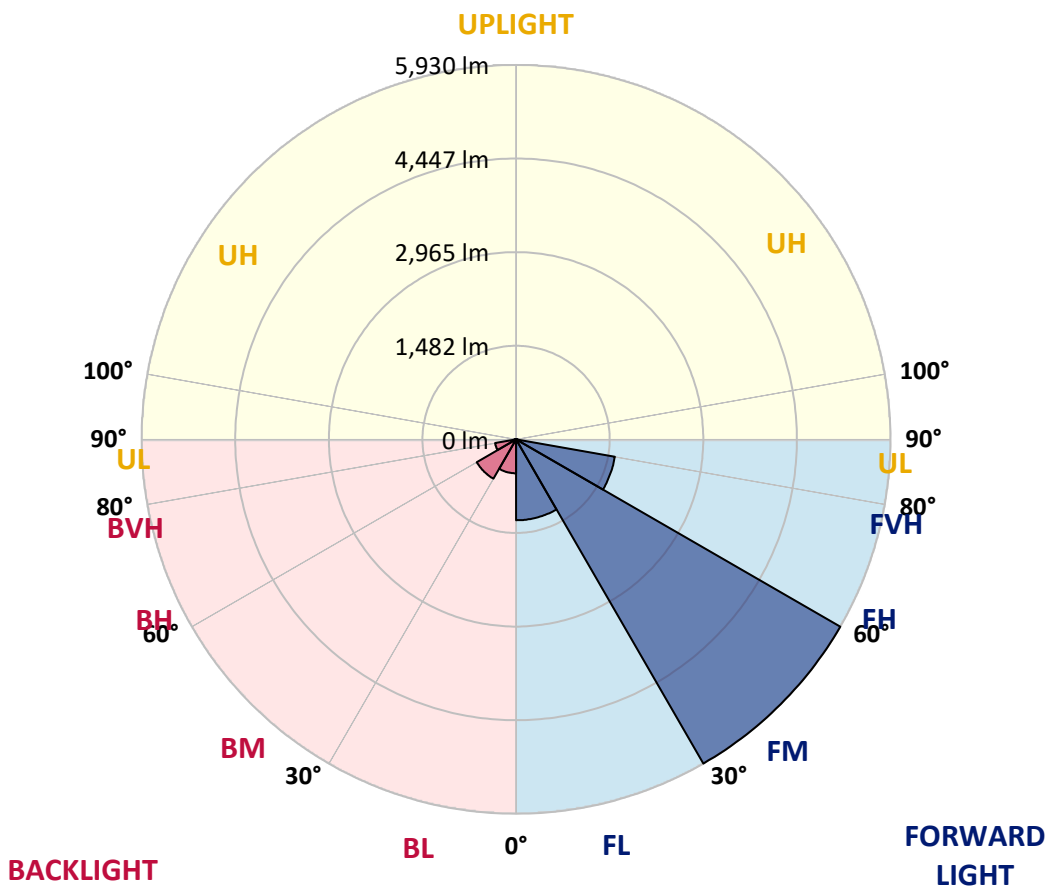
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.7	12.3			
FM (30°-60°)	5929.7	56.8			
FH (60°-80°)	1588.9	15.2			G1/1800
FVH (80°-90°)	25.1	0.2			G1/100
BL (0°-30°)	537.9	5.1	B2/1000		
BM (30°-60°)	718.8	6.9	B1/1000		
BH (60°-80°)	337.2	3.2	B1/500		G1/500
BVH (80°-90°)	27.4	0.3			G1/100
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°	55°	59°	65°	75°	85°
0°	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5
2.5°	2908.7	2884.4	2901.3	2871.2	2858.7	2825.6	2782.9	2754.2	2710.1	2652.7	2602.7
5°	3197.7	3180.8	3184.5	3152.1	3123.4	3068.3	2980.7	2932.2	2857.2	2741.7	2634.3
7.5°	3188.9	3208.7	3219.8	3247.7	3255.8	3250.6	3172.0	3104.3	3021.9	2848.4	2686.6
10°	2858.7	2896.2	2930.0	3025.6	3141.8	3288.9	3307.3	3266.8	3183.7	2984.4	2749.1
12.5°	2499.0	2527.7	2557.9	2672.6	2850.6	3144.7	3344.0	3369.1	3336.0	3119.0	2819.7
15°	2322.5	2335.8	2364.4	2440.2	2582.1	2908.7	3280.1	3389.6	3449.2	3261.7	2899.1
17.5°	2315.2	2321.0	2335.0	2375.5	2474.0	2726.3	3164.6	3348.5	3538.2	3412.4	2991.8
20°	2467.4	2452.0	2443.1	2442.4	2490.9	2665.2	3052.8	3282.3	3580.1	3566.9	3091.1
22.5°	2678.5	2683.6	2664.5	2617.4	2611.5	2708.6	2996.9	3215.3	3592.6	3703.7	3183.0
25°	2977.8	3003.5	2946.9	2857.2	2813.1	2834.4	3031.5	3194.8	3591.2	3817.7	3240.4
27.5°	3327.1	3347.0	3289.6	3172.0	3080.8	3029.3	3134.4	3255.8	3603.7	3916.2	3274.9
30°	3725.0	3731.6	3652.9	3529.4	3396.3	3285.9	3305.8	3381.6	3667.6	4045.7	3315.4
32.5°	4211.1	4239.1	4119.9	3924.3	3738.2	3597.0	3536.0	3584.5	3805.9	4198.6	3377.9
35°	4828.2	4837.7	4686.2	4406.0	4142.7	3947.1	3819.1	3844.9	4016.2	4412.6	3472.0
37.5°	5409.9	5419.5	5258.4	4998.1	4621.5	4353.8	4168.5	4156.7	4285.4	4714.9	3625.7
40°	5779.1	5806.3	5734.2	5571.0	5211.3	4850.2	4598.7	4558.3	4638.4	5084.8	3839.7
42.5°	5977.7	5989.4	5988.0	6009.3	5795.3	5436.4	5084.1	5003.2	5056.9	5484.2	4056.0
45°	5979.1	6008.5	6087.2	6292.4	6302.0	6078.4	5697.5	5571.0	5521.7	5886.5	4281.7
47.5°	5711.4	5743.1	5959.3	6363.0	6660.9	6711.6	6432.2	6178.4	5971.0	6232.9	4467.1
50°	4901.0	4980.4	5392.2	6106.4	6731.5	7219.1	7133.0	6788.8	6370.4	6500.6	4583.3
52.5°	4197.2	4194.2	4447.9	5381.2	6436.6	7442.7	7811.1	7416.9	6765.3	6670.4	4612.7
55°	3073.4	3090.3	3349.9	4115.5	5649.7	7226.4	8184.0	7995.0	7218.3	6760.9	4600.9
57.5°	1593.7	1677.5	1943.8	2626.3	4292.8	6482.2	8084.7	8210.5	7678.7	6824.9	4616.4
60°	805.3	789.1	884.7	1253.9	2487.3	5062.8	7472.8	7873.6	7761.8	6874.9	4625.9
62.5°	537.6	533.2	506.7	581.0	1016.4	2998.4	6370.4	6932.3	7184.5	6757.2	4503.8
65°	465.5	456.7	408.2	405.2	493.5	1243.6	4669.3	5449.6	5937.9	6234.3	4211.9
67.5°	419.2	406.0	356.7	332.4	354.5	546.4	2631.4	3655.1	4384.7	5272.4	3572.0
70°	374.3	367.7	318.4	283.1	280.9	333.2	969.3	1886.4	2682.9	3597.0	2611.5
72.5°	335.4	323.6	281.7	247.8	230.9	236.1	420.7	726.6	1388.5	2243.8	1562.1
75°	290.5	281.7	244.9	211.1	190.5	172.8	256.7	336.1	633.2	1066.4	737.6
77.5°	224.3	218.4	193.4	167.7	155.9	128.7	155.9	211.8	292.7	449.4	383.9
80°	130.2	133.9	144.1	130.9	114.7	91.9	101.5	122.1	175.8	243.4	217.7
82.5°	65.5	69.9	93.4	75.8	68.4	53.7	60.3	72.1	91.9	134.6	85.3
85°	5.1	5.1	16.9	19.1	23.5	19.1	24.3	29.4	41.9	53.7	28.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.7	6.6	12.5	8.1
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°	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5	2564.5
2.5°	2568.9	2531.4	2486.5	2449.8	2393.1	2363.0	2324.7	2277.7	2258.5	2249.7	2244.6
5°	2574.0	2507.9	2412.2	2324.0	2226.2	2149.0	2062.9	1973.2	1921.7	1909.2	1900.4
7.5°	2593.2	2500.5	2348.3	2202.6	2021.0	1852.6	1688.6	1526.0	1442.9	1411.3	1408.4
10°	2619.6	2497.6	2283.5	2041.6	1734.9	1468.7	1276.7	1149.5	1095.8	1078.2	1072.3
12.5°	2652.7	2495.3	2198.2	1818.0	1404.7	1153.2	1043.6	1023.0	1030.4	1028.9	1028.9
15°	2694.7	2498.3	2095.3	1565.0	1136.3	1000.9	1003.1	1027.4	1050.2	1053.9	1053.9
17.5°	2740.3	2495.3	1946.0	1311.3	975.2	964.9	998.7	1032.6	1053.2	1056.1	1056.1
20°	2789.5	2481.4	1757.7	1072.3	904.6	942.1	978.9	1005.3	1017.8	1020.8	1020.8
22.5°	2818.9	2441.7	1553.3	907.5	859.7	906.1	930.3	957.5	959.0	935.5	934.7
25°	2814.5	2367.4	1320.1	801.6	811.9	852.4	883.3	864.1	840.6	827.4	825.2
27.5°	2786.6	2255.6	1082.6	721.5	755.3	800.9	791.3	775.2	769.3	754.6	753.1
30°	2751.3	2118.1	869.3	659.0	696.5	738.4	723.7	722.2	716.3	700.1	700.1
32.5°	2717.5	1976.1	708.2	612.6	659.0	661.9	682.5	684.0	681.0	653.1	650.1
35°	2707.9	1834.2	599.4	575.8	622.2	620.7	650.1	649.4	598.6	559.7	558.9
37.5°	2736.6	1690.0	534.7	545.7	571.4	590.6	614.1	571.4	554.5	531.0	529.5
40°	2797.6	1556.9	501.6	528.0	539.1	567.0	530.3	533.2	528.8	511.1	508.9
42.5°	2878.5	1443.7	483.2	522.2	520.7	528.0	487.6	499.4	506.0	492.7	490.5
45°	2956.5	1345.1	473.6	500.1	507.5	464.8	456.7	467.7	478.0	472.9	470.7
47.5°	3013.8	1259.8	468.5	469.9	490.5	443.5	430.2	435.4	447.9	450.1	449.4
50°	3031.5	1187.0	462.6	444.9	440.5	422.1	411.8	410.4	425.1	435.4	436.9
52.5°	2997.7	1122.3	447.1	422.9	401.6	404.5	400.8	393.5	408.2	422.1	423.6
55°	2947.6	1085.5	422.9	401.6	376.5	388.3	389.8	383.2	392.7	402.3	402.3
57.5°	2951.3	1106.8	399.3	381.7	354.5	369.9	378.0	375.1	375.1	382.4	383.2
60°	2975.6	1137.7	383.9	356.7	332.4	348.6	367.0	364.0	357.4	367.0	367.0
62.5°	2905.7	1096.5	373.6	332.4	308.9	328.0	350.1	348.6	341.2	356.7	358.2
65°	2699.8	986.2	361.8	302.3	285.4	307.4	326.5	331.7	325.1	345.7	349.3
67.5°	2262.9	829.6	339.0	273.6	261.8	282.4	300.8	308.1	303.0	327.3	330.2
70°	1687.1	671.5	303.0	242.0	233.1	251.5	268.4	271.4	272.1	300.8	303.7
72.5°	1075.9	522.2	255.2	206.7	200.0	214.0	226.5	238.3	243.4	270.6	269.9
75°	600.1	388.3	205.2	175.0	163.3	174.3	189.0	203.0	217.7	257.4	261.8
77.5°	345.7	272.8	162.5	140.5	126.5	138.3	150.8	170.6	214.7	249.3	244.9
80°	194.9	177.2	122.8	103.0	94.1	103.0	112.5	150.0	169.2	183.9	186.1
82.5°	91.2	99.3	83.8	63.2	63.2	69.1	78.0	116.2	128.0	104.4	91.2
85°	33.1	44.9	41.2	32.4	28.7	27.9	48.5	66.2	41.2	36.8	31.6
87.5°	8.8	12.5	11.8	8.1	4.4	3.7	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)