

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: P634777

Luminaire Tested: GWS-SA3C-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3C-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

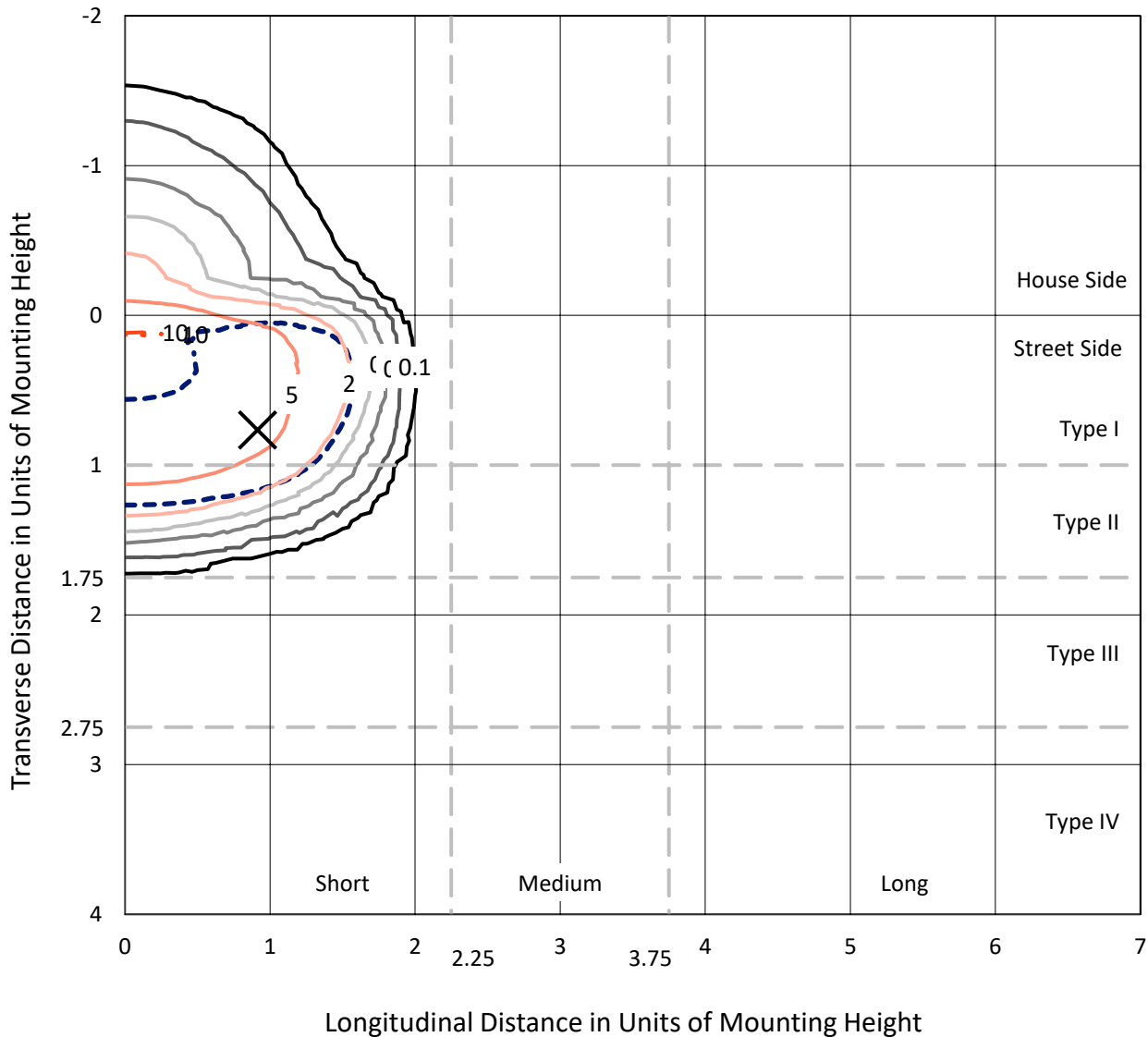
Lumens per Lamp: N/A  
Luminaire Lumens: 10506 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

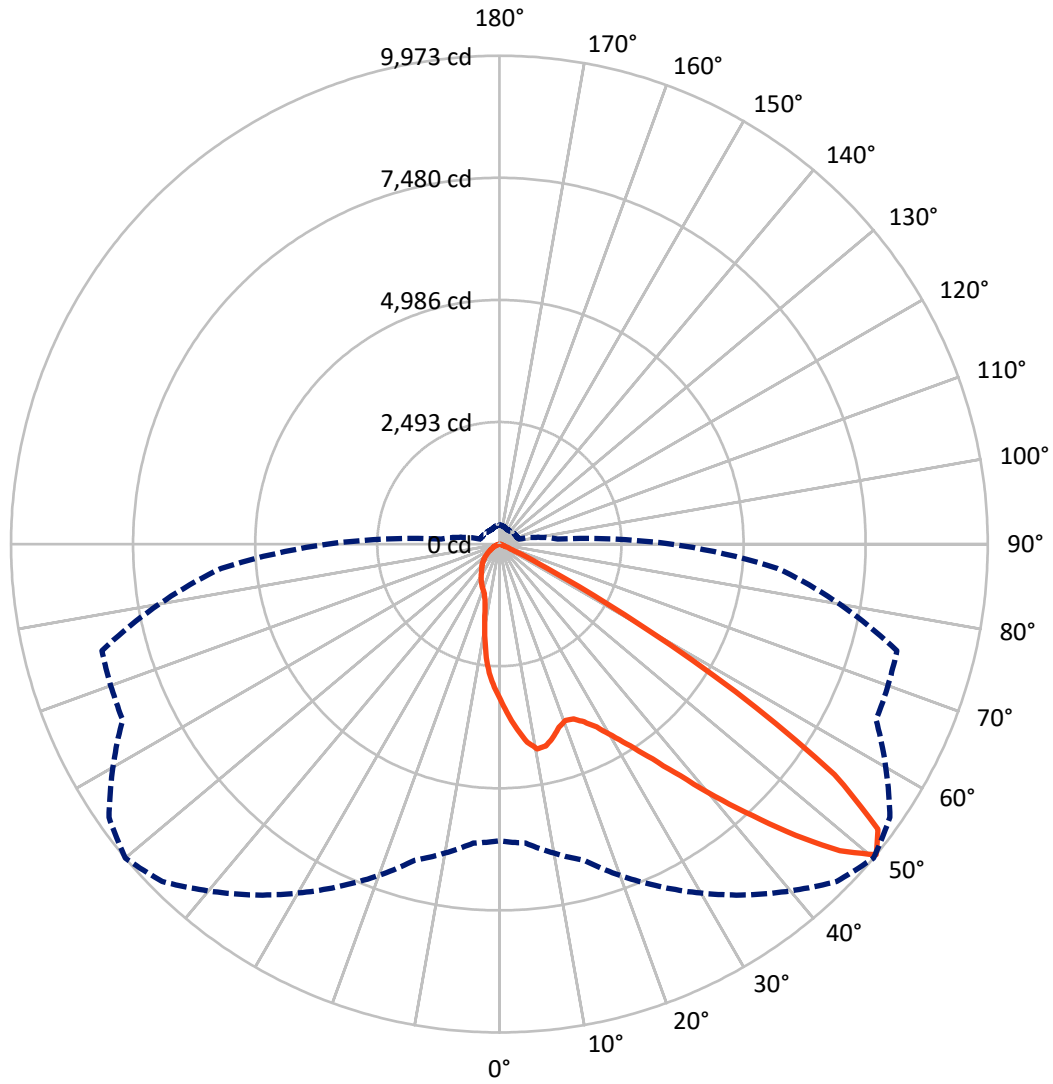
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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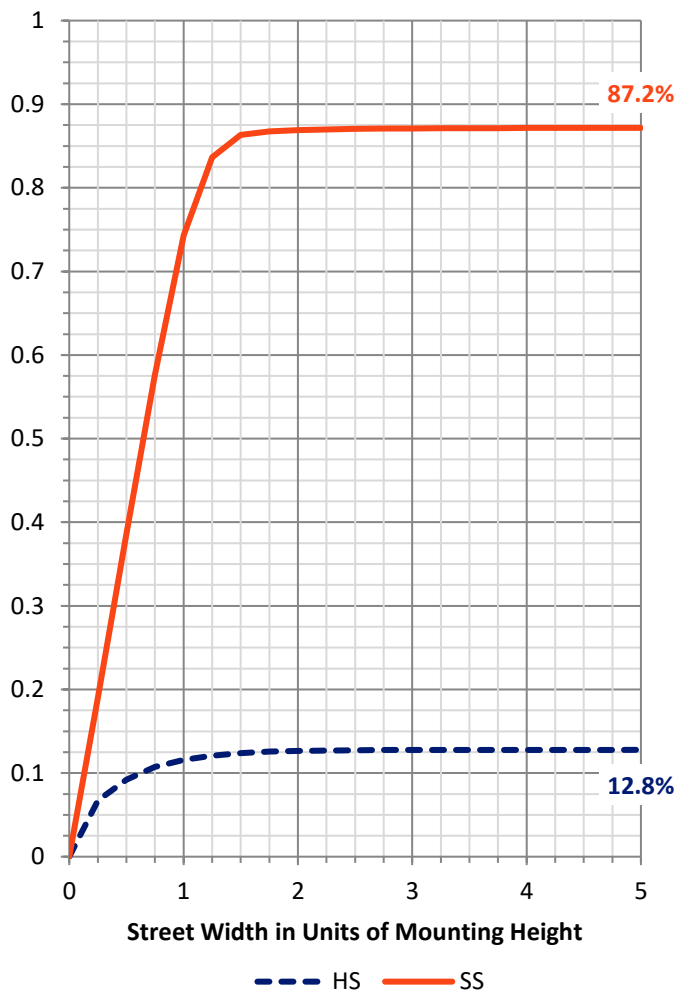
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1349.9	0.0	1349.9
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	9156.2	0.0	9156.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	10506.0	0.0	10506.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.3	2.8
10°-20°	761.8	7.3
20°-30°	1257.3	12.0
30°-40°	2074.7	19.7
40°-50°	3282.7	31.2
50°-60°	2485.4	23.7
60°-70°	311.1	3.0
70°-80°	35.2	0.3
80°-90°	2.7	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°	10506.0	100.0
0°-180°	10506.0	100.0

**Coefficient of Utilization**



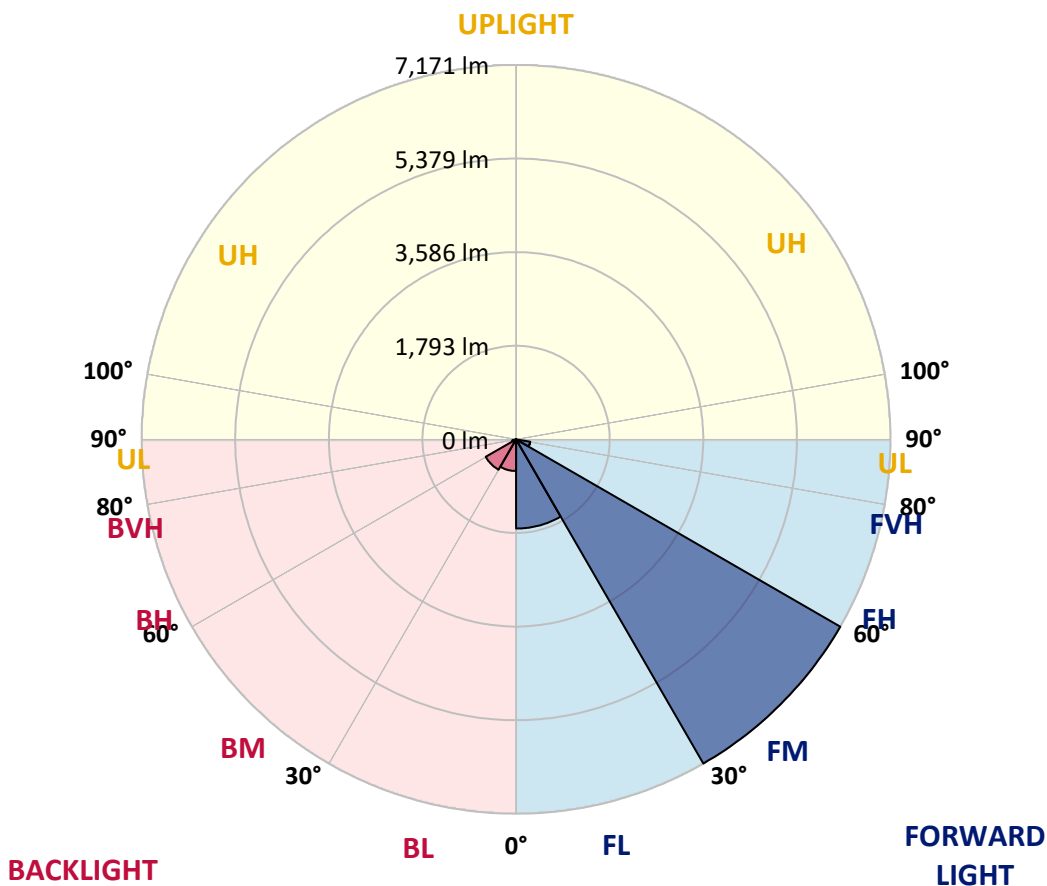
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.4	16.3			
FM (30°-60°)	7171.4	68.3			
FH (60°-80°)	275.0	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	605.9	5.8	B2/1000		
BM (30°-60°)	671.3	6.4	B1/1000		
BH (60°-80°)	71.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9
2.5°	3626.9	3655.9	3647.9	3609.9	3568.9	3539.9	3494.9	3480.9	3378.9	3307.9	3232.9
5°	4064.9	4073.9	4063.9	4017.9	3945.9	3876.9	3802.9	3759.9	3588.9	3434.9	3277.9
7.5°	4169.9	4158.9	4177.9	4200.9	4190.9	4160.9	4082.9	4035.9	3831.9	3580.9	3342.9
10°	3841.9	3816.9	3887.9	4006.9	4131.9	4272.9	4252.9	4256.9	4068.9	3764.9	3427.9
12.5°	3406.9	3396.9	3449.9	3587.9	3832.9	4152.9	4229.9	4358.9	4285.9	3963.9	3524.9
15°	3215.9	3220.9	3252.9	3339.9	3515.9	3913.9	4098.9	4331.9	4479.9	4156.9	3631.9
17.5°	3244.9	3262.9	3261.9	3290.9	3397.9	3716.9	3932.9	4246.9	4629.9	4378.9	3754.9
20°	3441.9	3459.9	3432.9	3410.9	3446.9	3666.9	3845.9	4160.9	4730.9	4602.9	3884.9
22.5°	3736.9	3757.9	3693.9	3630.9	3607.9	3748.9	3878.9	4125.9	4807.8	4807.8	4000.9
25°	4093.9	4122.9	4023.9	3911.9	3847.9	3921.9	4019.9	4204.9	4886.8	4991.8	4079.9
27.5°	4492.9	4493.9	4408.9	4282.9	4162.9	4171.9	4230.9	4382.9	4973.8	5189.8	4141.9
30°	4941.8	4944.8	4831.8	4680.9	4529.9	4488.9	4538.9	4653.9	5154.8	5438.8	4227.9
32.5°	5521.8	5535.8	5373.8	5151.8	4955.8	4878.8	4907.8	5028.8	5442.8	5750.8	4356.9
35°	6305.8	6320.8	6081.8	5788.8	5476.8	5360.8	5389.8	5511.8	5859.8	6193.8	4562.9
37.5°	7079.8	7099.8	6857.8	6584.8	6156.8	5964.8	5994.8	6110.8	6485.8	6805.8	4892.8
40°	7614.8	7641.8	7566.8	7382.8	6985.8	6733.8	6769.8	6811.8	7174.8	7537.8	5320.8
42.5°	7896.8	7934.8	7966.8	8060.7	7851.8	7640.8	7579.8	7582.8	7875.8	8283.7	5765.8
45°	7913.8	7950.8	8114.7	8477.7	8636.7	8592.7	8481.7	8406.7	8410.7	8780.7	6043.8
47.5°	7363.8	7432.8	7739.8	8450.7	9048.7	9413.7	9357.7	9179.7	8635.7	8813.7	6013.8
50°	6060.8	6128.8	6686.8	7709.8	8748.7	9741.7	9972.7	9733.7	8488.7	8402.7	5704.8
52.5°	4401.9	4408.9	4770.9	5965.8	7532.8	9136.7	9680.7	9657.7	8264.7	7904.8	5282.8
55°	2090.9	2065.9	2472.9	3366.9	5209.8	7389.8	8306.7	8566.7	7946.8	7544.8	4955.8
57.5°	609.0	621.0	802.0	1314.0	2605.9	4722.9	5688.8	6172.8	6522.8	6202.8	3843.9
60°	273.0	274.0	305.0	400.0	868.0	2196.9	2940.9	3539.9	3899.9	3613.9	1906.9
62.5°	198.0	199.0	211.0	226.0	295.0	744.0	1103.0	1470.0	1497.0	980.0	483.0
65°	165.0	165.0	167.0	167.0	177.0	266.0	335.0	432.0	364.0	270.0	189.0
67.5°	133.0	134.0	136.0	136.0	133.0	133.0	144.0	158.0	169.0	209.0	174.0
70°	104.0	103.0	103.0	104.0	101.0	86.0	93.0	106.0	116.0	163.0	151.0
72.5°	81.0	82.0	81.0	77.0	70.0	51.0	55.0	69.0	74.0	102.0	102.0
75°	61.0	62.0	58.0	44.0	29.0	16.0	21.0	34.0	43.0	50.0	37.0
77.5°	8.0	8.0	6.0	6.0	5.0	6.0	6.0	8.0	12.0	12.0	9.0
80°	1.0	1.0	1.0	2.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0
82.5°	1.0	1.0	1.0	1.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0
87.5°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
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°	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9	3182.9
2.5°	3187.9	3129.9	3059.9	3011.9	2943.9	2898.9	2834.9	2791.9	2754.9	2725.9	2741.9
5°	3188.9	3096.9	2953.9	2831.9	2698.9	2576.9	2445.9	2342.9	2249.9	2207.9	2230.9
7.5°	3208.9	3076.9	2857.9	2640.9	2385.9	2133.9	1897.9	1705.9	1610.9	1566.0	1580.0
10°	3247.9	3067.9	2750.9	2390.9	1976.9	1632.9	1404.0	1274.0	1221.0	1193.0	1198.0
12.5°	3283.9	3061.9	2611.9	2061.9	1560.0	1267.0	1148.0	1130.0	1141.0	1142.0	1141.0
15°	3332.9	3050.9	2439.9	1723.9	1248.0	1095.0	1098.0	1124.0	1150.0	1158.0	1156.0
17.5°	3384.9	3033.9	2217.9	1400.0	1059.0	1045.0	1080.0	1115.0	1141.0	1145.0	1146.0
20°	3438.9	2998.9	1964.9	1143.0	971.0	1007.0	1046.0	1072.0	1091.0	1097.0	1099.0
22.5°	3463.9	2924.9	1672.9	959.0	912.0	960.0	989.0	1023.0	1029.0	1007.0	1011.0
25°	3450.9	2799.9	1388.0	835.0	853.0	901.0	944.0	927.0	902.0	886.0	891.0
27.5°	3409.9	2633.9	1109.0	744.0	790.0	851.0	856.0	837.0	833.0	820.0	824.0
30°	3365.9	2442.9	892.0	671.0	726.0	790.0	775.0	782.0	783.0	768.0	773.0
32.5°	3338.9	2242.9	710.0	622.0	685.0	697.0	727.0	741.0	742.0	707.0	713.0
35°	3347.9	2045.9	601.0	582.0	647.0	644.0	686.0	694.0	636.0	588.0	593.0
37.5°	3420.9	1863.9	539.0	551.0	581.0	604.0	636.0	583.0	570.0	548.0	551.0
40°	3556.9	1708.9	502.0	532.0	536.0	573.0	524.0	531.0	532.0	518.0	521.0
42.5°	3715.9	1580.0	480.0	521.0	511.0	517.0	468.0	482.0	497.0	491.0	492.0
45°	3795.9	1454.0	461.0	483.0	486.0	429.0	418.0	433.0	452.0	455.0	456.0
47.5°	3724.9	1334.0	441.0	428.0	448.0	391.0	378.0	383.0	405.0	417.0	419.0
50°	3507.9	1196.0	411.0	379.0	368.0	351.0	339.0	340.0	365.0	386.0	390.0
52.5°	3202.9	1052.0	362.0	321.0	296.0	309.0	312.0	306.0	329.0	350.0	354.0
55°	2906.9	872.0	287.0	261.0	238.0	266.0	274.0	266.0	273.0	287.0	288.0
57.5°	2046.9	493.0	220.0	216.0	197.0	228.0	241.0	229.0	217.0	226.0	228.0
60°	949.0	258.0	169.0	169.0	164.0	196.0	218.0	201.0	178.0	182.0	185.0
62.5°	297.0	163.0	124.0	117.0	134.0	167.0	185.0	168.0	141.0	141.0	145.0
65°	168.0	140.0	98.0	90.0	109.0	134.0	145.0	127.0	103.0	101.0	101.0
67.5°	156.0	133.0	87.0	73.0	77.0	86.0	90.0	78.0	71.0	70.0	71.0
70°	129.0	111.0	70.0	50.0	47.0	46.0	48.0	45.0	43.0	44.0	47.0
72.5°	80.0	67.0	44.0	30.0	26.0	25.0	25.0	25.0	24.0	24.0	24.0
75°	29.0	25.0	20.0	15.0	13.0	12.0	12.0	13.0	12.0	11.0	10.0
77.5°	9.0	8.0	8.0	8.0	7.0	6.0	5.0	5.0	4.0	3.0	3.0
80°	5.0	5.0	5.0	5.0	4.0	4.0	3.0	2.0	1.0	1.0	0.0
82.5°	5.0	5.0	5.0	4.0	4.0	4.0	3.0	2.0	1.0	0.0	0.0
85°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0	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)