

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: P639454

Luminaire Tested: GWS-SA5B-830-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639454  
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-SA5B-830-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

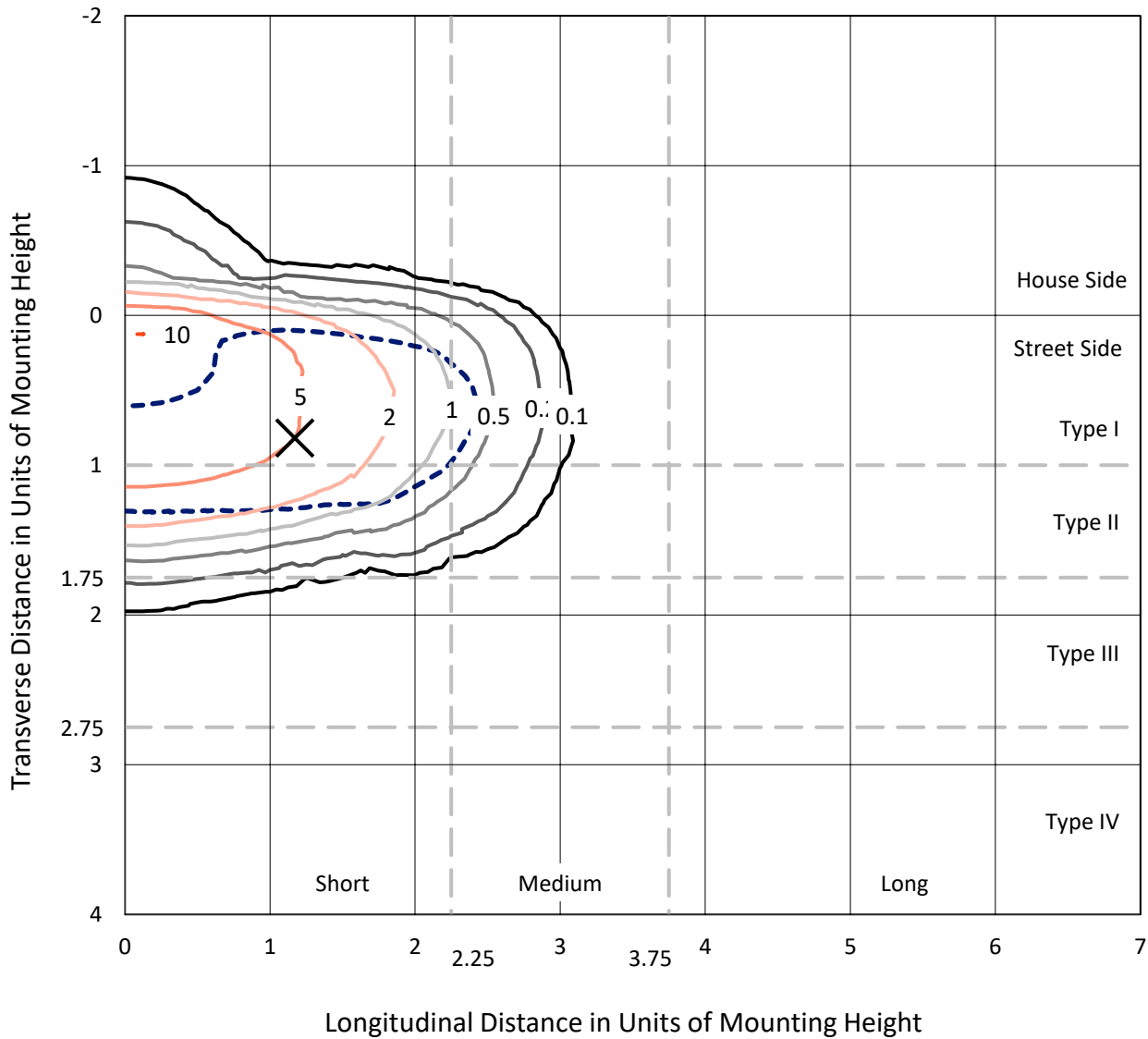
Lumens per Lamp: N/A  
Luminaire Lumens: 11828.4 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

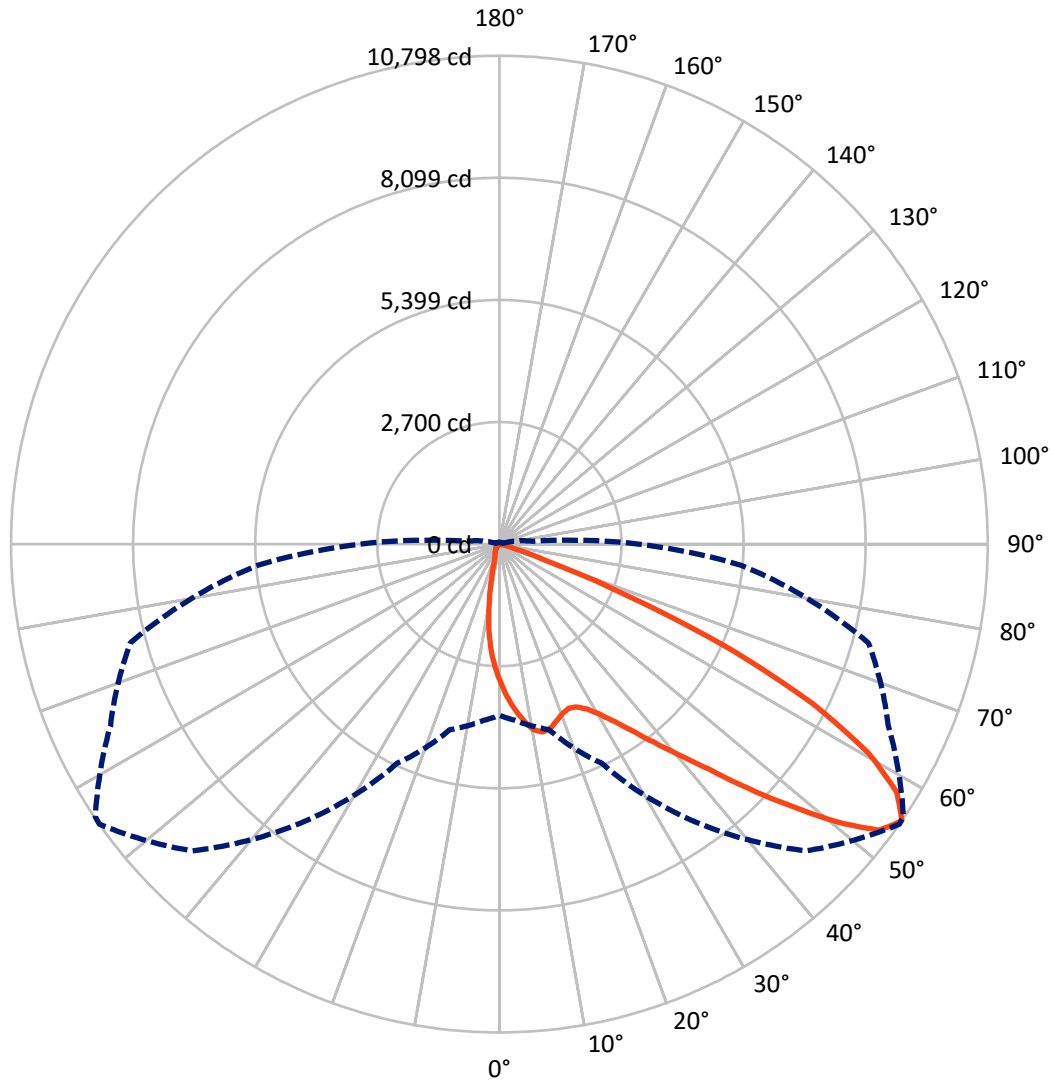
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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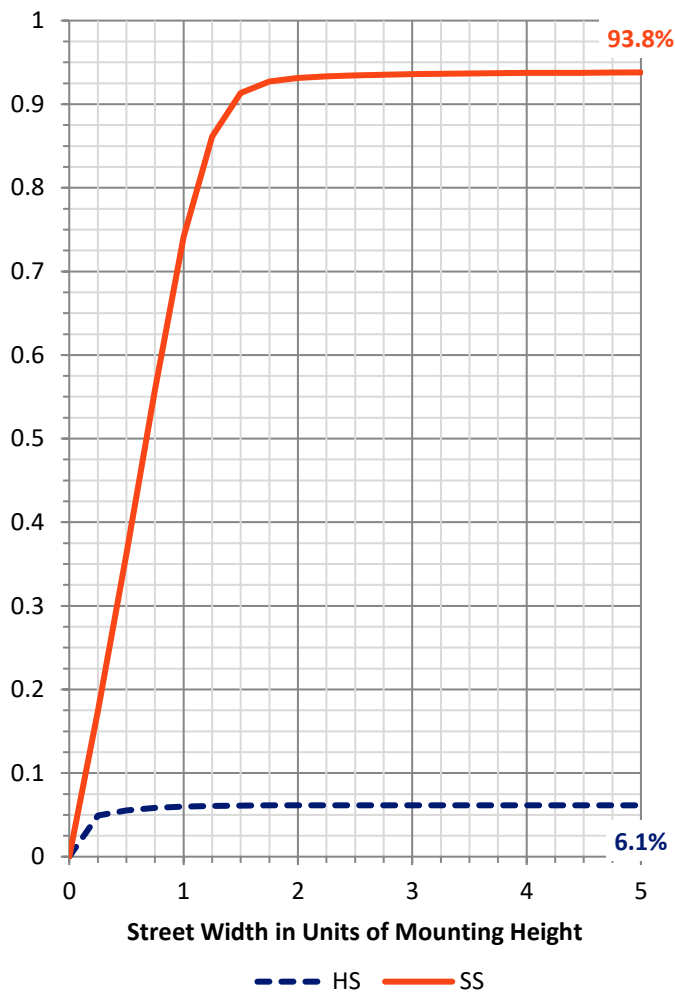
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	729.9	0.0	729.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11098.5	0.0	11098.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	11828.4	0.0	11828.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.1	2.3
10°-20°	651.1	5.5
20°-30°	1084.3	9.2
30°-40°	1847.7	15.6
40°-50°	3016.1	25.5
50°-60°	3157.7	26.7
60°-70°	1592.7	13.5
70°-80°	201.2	1.7
80°-90°	7.6	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°	11828.4	100.0
0°-180°	11828.4	100.0

**Coefficient of Utilization**



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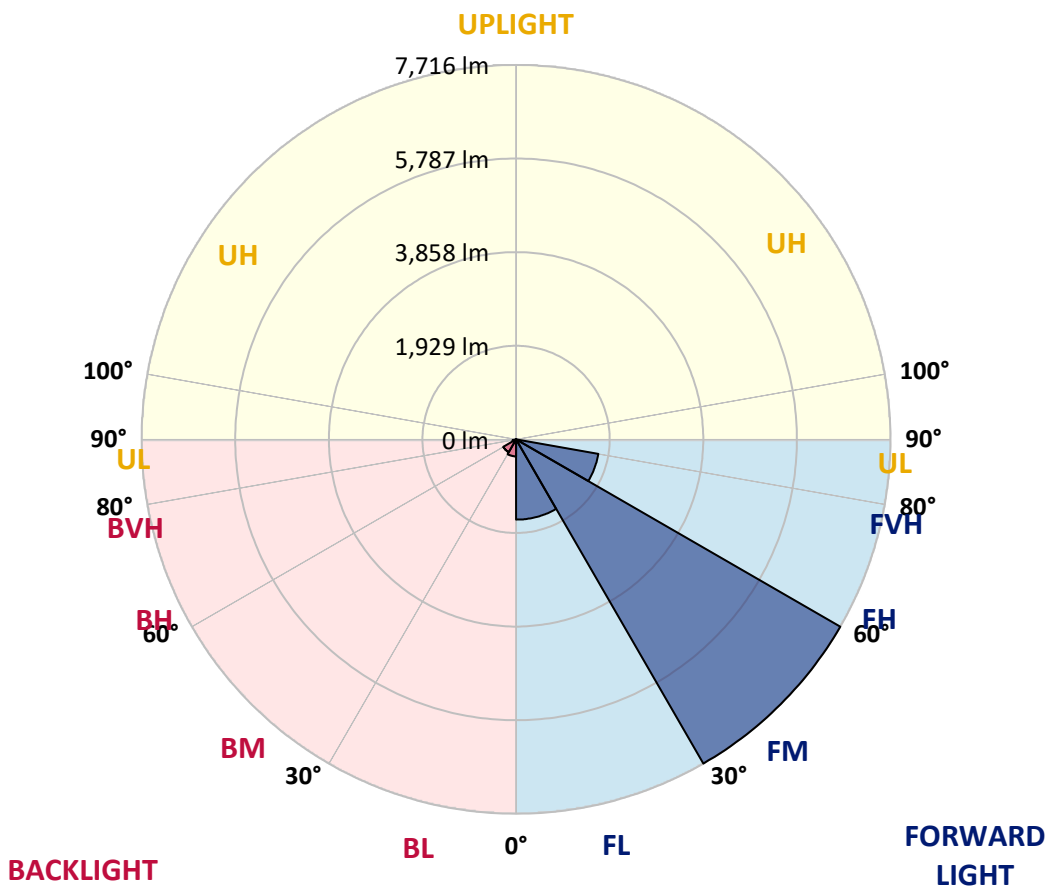
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.6	14.0			
FM (30°-60°)	7716.3	65.2			
FH (60°-80°)	1720.6	14.5			G1/1800
FVH (80°-90°)	6.9	0.1			G0/10
BL (0°-30°)	350.8	3.0	B1/500		
BM (30°-60°)	305.2	2.6	B1/1000		
BH (60°-80°)	73.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8
2.5°	3562.4	3545.2	3571.5	3541.1	3489.6	3446.1	3389.5	3369.2	3278.2	3192.3	3109.4
5°	3995.1	4000.2	3992.1	3949.6	3876.8	3795.9	3681.7	3656.4	3497.6	3333.8	3156.9
7.5°	4102.3	4099.3	4116.5	4132.7	4120.5	4080.1	3955.7	3930.4	3733.3	3487.5	3229.7
10°	3771.7	3773.7	3809.1	3918.3	4053.8	4194.3	4175.1	4161.0	3967.8	3661.5	3310.6
12.5°	3304.5	3322.7	3360.1	3515.8	3745.4	4064.9	4263.1	4277.3	4183.2	3852.6	3405.6
15°	3102.3	3106.3	3136.7	3230.7	3401.6	3795.9	4225.7	4265.1	4363.2	4044.7	3508.8
17.5°	3097.2	3102.3	3115.4	3156.9	3268.1	3584.6	4105.4	4174.1	4498.7	4251.0	3632.1
20°	3287.3	3284.3	3275.2	3252.9	3301.5	3514.8	3994.1	4070.0	4572.5	4452.2	3756.5
22.5°	3632.1	3628.1	3587.6	3495.6	3456.2	3578.5	3939.5	4008.3	4617.0	4631.2	3858.6
25°	4029.5	4057.8	3982.0	3842.5	3745.4	3741.3	3988.1	4036.6	4655.4	4789.9	3928.4
27.5°	4465.3	4474.4	4409.7	4253.0	4112.4	4002.2	4128.6	4165.0	4697.9	4931.5	3967.8
30°	4943.6	4940.6	4866.8	4684.8	4513.9	4355.1	4365.2	4379.4	4797.0	5093.3	4011.3
32.5°	5541.2	5554.4	5422.9	5175.2	4969.9	4750.5	4674.7	4676.7	4976.0	5301.6	4077.1
35°	6353.2	6320.8	6146.9	5794.0	5444.2	5207.5	5078.1	5067.0	5252.0	5581.7	4191.3
37.5°	7126.7	7129.8	6947.8	6559.5	6117.6	5744.5	5561.5	5531.1	5640.3	5970.0	4381.4
40°	7663.7	7673.8	7598.0	7394.7	6926.5	6398.7	6129.7	6098.4	6143.9	6461.4	4630.2
42.5°	7947.8	7976.1	7997.4	8044.9	7690.0	7215.7	6802.2	6799.1	6751.6	7021.6	4918.3
45°	7958.9	8001.4	8130.8	8455.4	8495.9	8148.0	7698.1	7630.3	7447.3	7621.2	5176.2
47.5°	7519.1	7617.2	7892.2	8535.3	8960.0	9075.3	8629.4	8587.9	8074.2	8095.5	5369.3
50°	6493.8	6595.9	7102.5	8125.8	9077.3	9811.4	9651.6	9565.7	8598.0	8408.9	5462.4
52.5°	5442.1	5535.2	5879.0	7151.0	8590.9	10043.0	10513.2	10411.0	9068.2	8518.1	5423.9
55°	3786.8	3911.2	4246.9	5345.1	7470.5	9592.0	10798.3	10777.1	9487.8	8449.4	5364.3
57.5°	1856.5	1979.9	2314.6	3295.4	5534.2	8374.5	10362.5	10474.7	9738.6	8375.5	5315.7
60°	775.6	826.1	941.4	1446.0	3096.2	6328.9	9378.6	9534.4	9584.9	8275.4	5310.7
62.5°	450.0	458.1	470.2	599.6	1204.3	3628.1	7780.0	8001.4	8777.0	8143.0	5230.8
65°	339.8	342.8	337.7	368.1	497.5	1376.2	5621.1	5922.4	7326.0	7625.3	4915.3
67.5°	279.1	279.1	265.9	272.0	312.5	515.7	3103.3	3523.9	5420.9	6267.3	4058.8
70°	222.5	227.5	221.4	213.4	223.5	285.2	1104.2	1369.1	3156.9	3700.9	2367.2
72.5°	168.9	168.9	179.0	172.9	165.8	179.0	385.3	432.8	1267.0	1543.1	854.4
75°	130.4	134.5	141.6	135.5	125.4	106.2	185.0	196.2	382.2	359.0	191.1
77.5°	66.7	67.7	90.0	99.1	93.0	64.7	80.9	89.0	124.4	111.2	70.8
80°	40.4	42.5	50.6	77.9	61.7	34.4	33.4	35.4	58.6	50.6	29.3
82.5°	17.2	18.2	28.3	28.3	25.3	13.1	13.1	13.1	28.3	26.3	12.1
85°	0.0	0.0	5.1	4.0	4.0	5.1	5.1	5.1	7.1	10.1	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	3.0
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°	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8
2.5°	3055.8	2991.1	2904.1	2825.2	2719.0	2659.4	2576.5	2508.7	2451.1	2432.9	2424.8
5°	3056.8	2945.5	2759.5	2573.4	2344.9	2164.9	1979.9	1833.3	1712.9	1674.5	1664.4
7.5°	3077.0	2913.2	2611.9	2274.1	1891.9	1576.4	1294.3	1041.5	924.2	884.8	876.7
10°	3104.3	2885.9	2441.0	1915.2	1366.1	960.6	680.5	518.7	441.9	399.4	405.5
12.5°	3139.7	2863.6	2251.9	1526.9	904.0	527.8	374.1	313.5	297.3	289.2	285.2
15°	3187.2	2837.4	2017.3	1141.6	554.1	339.8	288.2	272.0	265.9	261.9	260.9
17.5°	3235.8	2807.0	1778.7	802.9	368.1	282.1	258.9	250.8	246.7	243.7	242.7
20°	3287.3	2755.4	1498.6	553.1	290.2	253.8	238.6	229.5	224.5	219.4	218.4
22.5°	3309.6	2672.5	1230.6	387.3	257.8	233.6	214.4	203.2	197.2	193.1	193.1
25°	3288.3	2538.0	953.5	294.3	234.6	211.3	192.1	180.0	174.9	170.9	170.9
27.5°	3231.7	2365.1	695.7	243.7	209.3	188.1	169.9	158.8	154.7	152.7	152.7
30°	3169.0	2146.7	490.4	209.3	181.0	163.8	148.6	141.6	140.6	138.5	138.5
32.5°	3115.4	1942.5	337.7	184.0	159.8	142.6	132.5	129.4	130.4	128.4	129.4
35°	3086.1	1742.3	250.8	163.8	142.6	126.4	121.3	121.3	121.3	120.3	120.3
37.5°	3098.2	1545.1	204.3	149.7	127.4	115.3	110.2	112.2	114.3	114.3	114.3
40°	3158.9	1370.1	181.0	136.5	114.3	105.2	101.1	104.2	107.2	109.2	109.2
42.5°	3235.8	1228.6	163.8	125.4	105.2	95.1	93.0	96.1	99.1	101.1	101.1
45°	3284.3	1086.0	146.6	111.2	96.1	83.9	83.9	88.0	87.0	88.0	88.0
47.5°	3306.5	972.7	129.4	96.1	81.9	72.8	73.8	75.8	73.8	75.8	75.8
50°	3251.9	858.5	114.3	79.9	67.7	63.7	65.7	64.7	64.7	68.8	68.8
52.5°	3151.8	773.5	101.1	67.7	57.6	56.6	58.6	54.6	55.6	55.6	54.6
55°	3078.0	725.0	90.0	58.6	49.5	50.6	49.5	42.5	38.4	34.4	33.4
57.5°	3041.6	705.8	81.9	52.6	44.5	44.5	40.4	29.3	22.2	17.2	15.2
60°	3033.5	682.5	73.8	45.5	39.4	37.4	29.3	17.2	11.1	8.1	7.1
62.5°	2956.7	625.9	66.7	36.4	34.4	30.3	18.2	10.1	6.1	4.0	3.0
65°	2704.9	514.7	59.7	28.3	26.3	22.2	11.1	6.1	3.0	1.0	0.0
67.5°	2151.8	365.0	52.6	21.2	18.2	14.2	7.1	4.0	1.0	0.0	0.0
70°	1240.7	197.2	43.5	15.2	12.1	9.1	5.1	2.0	0.0	0.0	0.0
72.5°	414.6	92.0	33.4	10.1	9.1	7.1	3.0	1.0	0.0	0.0	0.0
75°	91.0	54.6	22.2	7.1	6.1	5.1	2.0	0.0	0.0	0.0	0.0
77.5°	34.4	38.4	11.1	5.1	4.0	3.0	1.0	0.0	0.0	0.0	0.0
80°	13.1	25.3	5.1	3.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.1	10.1	3.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	5.1	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	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)