

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: P634532

Luminaire Tested: GWS-SA3B-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-830-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

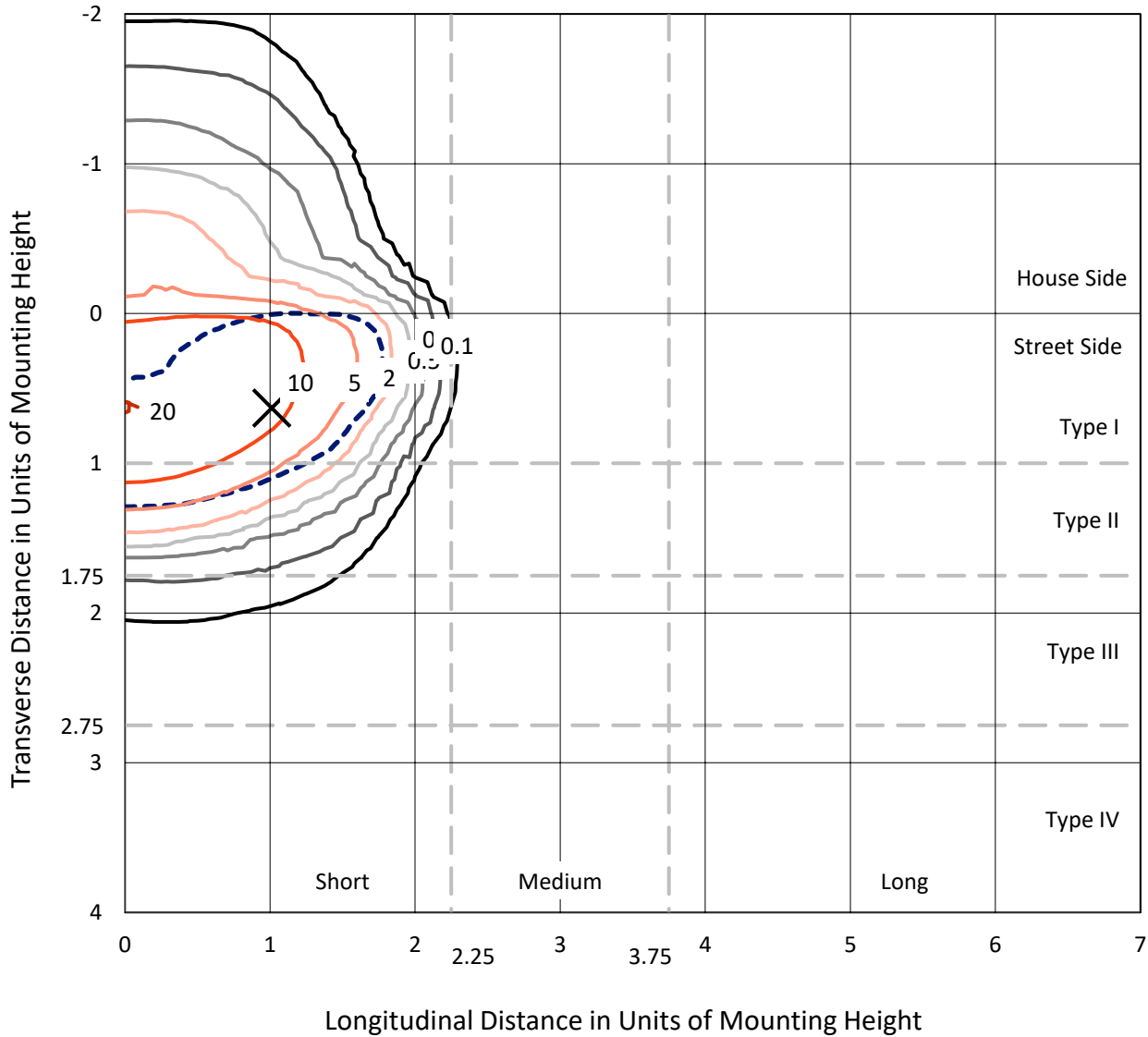
Lumens per Lamp: N/A  
Luminaire Lumens: 5538.9 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

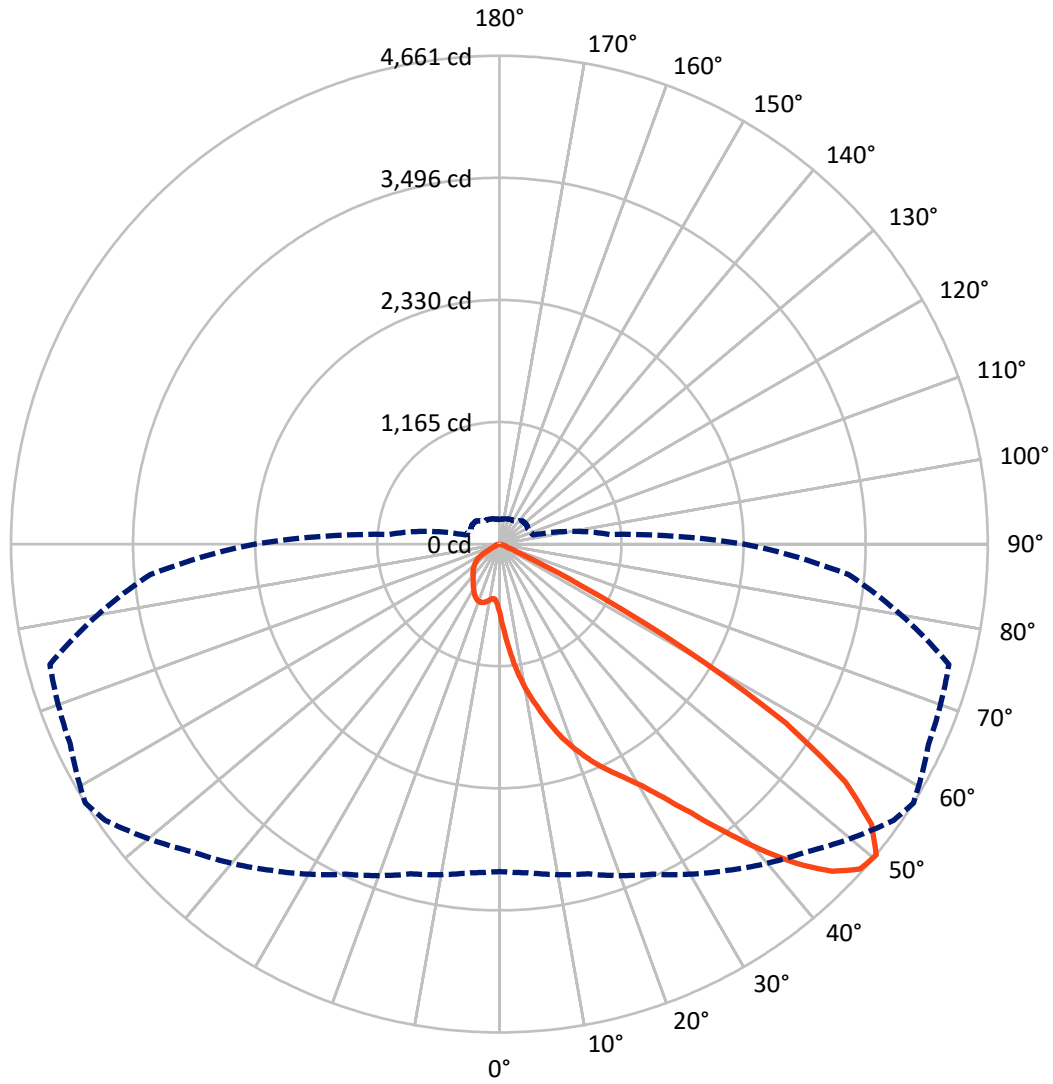
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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CATALOG NUMBER: GWS-SA3B-830-U-T2R-W-GRSBK

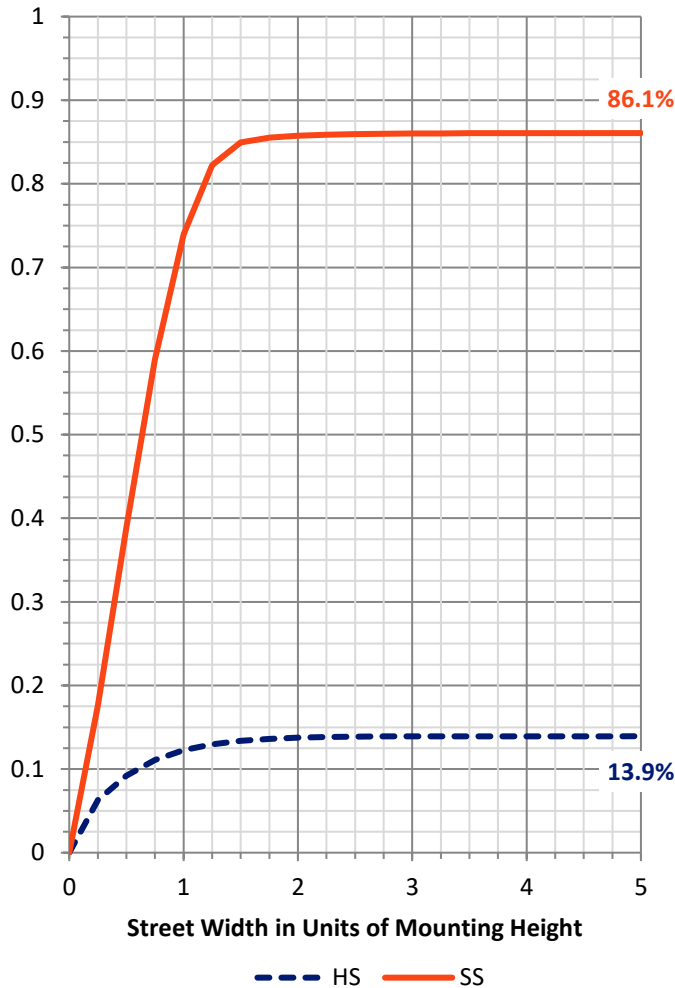
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	775.8	0.0	775.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4763.1	0.0	4763.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	5538.9	0.0	5538.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	1.5
10°-20°	324.5	5.9
20°-30°	656.6	11.9
30°-40°	1161.6	21.0
40°-50°	1693.3	30.6
50°-60°	1357.2	24.5
60°-70°	244.5	4.4
70°-80°	19.3	0.3
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°	5538.9	100.0
0°-180°	5538.9	100.0

**Coefficient of Utilization**



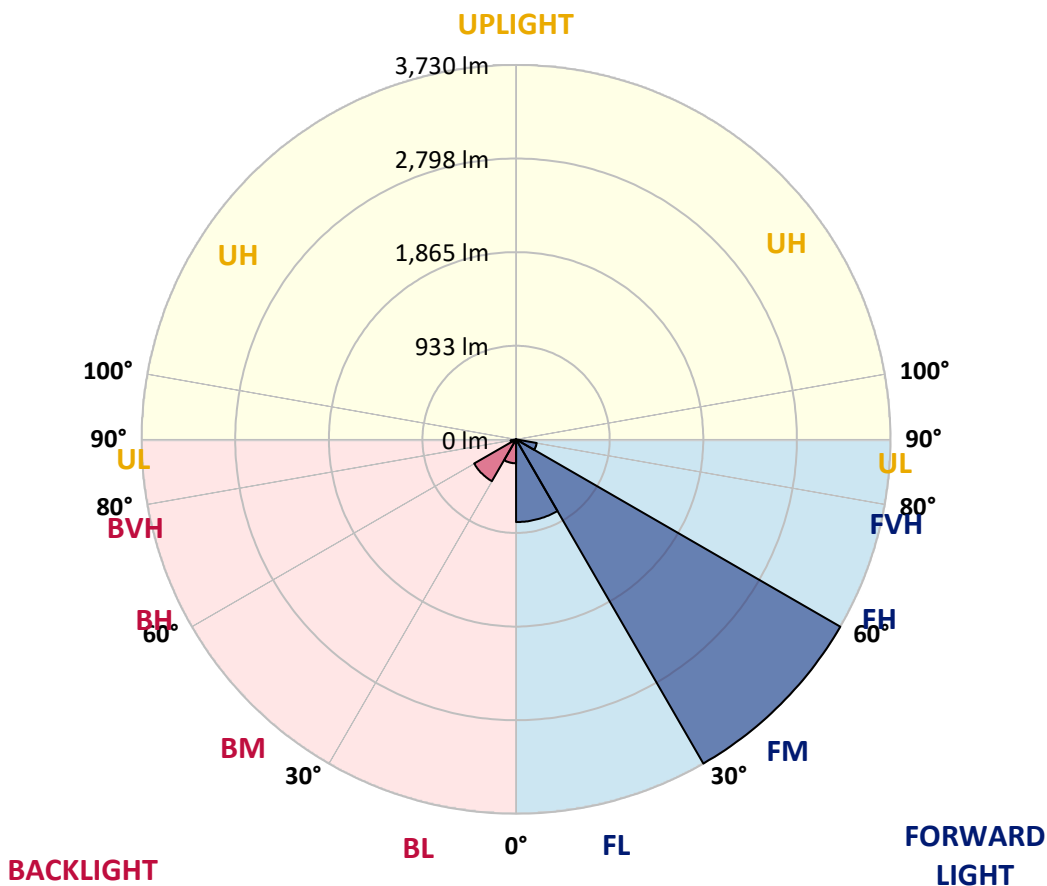
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CATALOG NUMBER: GWS-SA3B-830-U-T2R-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.2	14.9			
FM (30°-60°)	3730.3	67.3			
FH (60°-80°)	208.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	238.8	4.3	B1/500		
BM (30°-60°)	481.8	8.7	B1/1000		
BH (60°-80°)	55.1	1.0	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: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	979.1	963.7	954.8	947.7	916.3	866.6	834.0	816.8	788.4	740.4	698.9
5°	1277.6	1266.4	1245.6	1231.4	1191.1	1120.7	1047.8	1018.8	954.2	845.8	748.7
7.5°	1475.4	1467.2	1459.5	1440.5	1402.6	1338.6	1258.1	1227.9	1128.4	974.4	815.0
10°	1627.7	1621.2	1612.3	1611.7	1582.1	1524.6	1445.8	1414.4	1306.6	1114.1	893.2
12.5°	1761.5	1756.2	1754.4	1771.0	1752.1	1709.4	1624.1	1585.0	1470.7	1256.9	979.7
15°	1853.3	1852.2	1859.9	1892.4	1903.1	1883.6	1811.9	1769.8	1638.3	1400.2	1075.0
17.5°	1895.4	1899.0	1913.8	1970.0	2017.4	2034.0	1978.9	1943.4	1804.8	1545.3	1176.9
20°	1967.1	1965.9	1974.8	2028.1	2086.1	2145.4	2128.8	2098.6	1973.0	1698.7	1290.1
22.5°	2169.0	2151.9	2132.9	2141.2	2161.9	2231.2	2262.0	2246.6	2146.5	1856.3	1406.7
25°	2479.4	2461.6	2400.6	2341.4	2302.3	2333.7	2375.8	2383.5	2318.9	2018.0	1528.8
27.5°	2808.7	2792.7	2724.0	2635.2	2523.2	2468.8	2500.1	2515.5	2488.3	2210.5	1658.5
30°	3117.3	3096.0	3020.8	2910.6	2780.9	2697.4	2661.8	2672.5	2688.5	2438.5	1810.7
32.5°	3385.1	3369.1	3279.0	3162.9	3038.0	2950.9	2868.0	2885.7	2924.8	2717.5	2005.6
35°	3611.9	3603.6	3508.3	3392.8	3260.7	3216.3	3145.2	3148.7	3187.8	3054.6	2243.1
37.5°	3809.2	3794.9	3708.5	3601.3	3496.4	3489.3	3469.8	3471.5	3491.7	3447.3	2516.1
40°	3933.5	3920.5	3858.9	3792.6	3717.9	3719.1	3820.4	3828.1	3805.0	3832.8	2804.6
42.5°	3980.3	3970.9	3937.7	3938.3	3930.6	3965.5	4155.7	4169.9	4087.0	4135.5	3051.0
45°	3899.2	3895.0	3897.4	3982.7	4075.1	4182.9	4429.9	4454.8	4337.5	4336.3	3243.5
47.5°	3637.4	3629.1	3698.4	3843.5	4057.3	4267.0	4595.7	4634.2	4512.8	4451.2	3364.3
50°	3124.4	3148.1	3257.7	3475.7	3800.9	4151.5	4594.0	4660.9	4519.3	4441.2	3344.2
52.5°	2263.2	2258.5	2498.4	2798.1	3193.7	3781.9	4349.9	4447.7	4361.2	4342.2	3299.2
55°	1231.4	1274.7	1436.4	1833.2	2327.2	3082.4	3792.6	4005.8	4105.9	4306.1	3380.3
57.5°	452.5	471.5	572.8	853.5	1232.0	1916.7	2897.0	3218.6	3527.8	4205.4	3366.7
60°	182.4	186.0	226.3	313.9	517.7	975.5	1737.8	2023.3	2314.8	3219.2	2583.7
62.5°	132.7	137.4	153.4	183.6	261.8	426.5	749.3	871.3	952.4	1594.5	1272.9
65°	107.2	110.8	123.8	137.4	173.0	229.2	241.7	232.8	231.6	412.2	292.0
67.5°	88.8	92.4	101.9	111.4	124.4	114.3	82.9	87.1	71.1	70.5	57.5
70°	65.2	69.3	78.8	88.8	74.6	30.8	48.0	71.1	53.9	45.0	43.8
72.5°	49.2	52.1	61.0	58.0	21.9	11.8	32.0	51.5	41.5	33.2	32.6
75°	36.7	38.5	30.8	9.5	2.4	3.0	11.8	21.3	23.1	19.0	19.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.8	2.4	3.0	3.6
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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CATALOG NUMBER: GWS-SA3B-830-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	675.2	650.4	614.8	585.2	562.7	540.8	524.2	507.6	507.0	498.7	496.9
5°	703.7	658.7	593.5	546.7	518.3	501.1	489.2	483.3	480.4	477.4	476.2
7.5°	744.5	680.0	589.9	540.2	516.5	505.2	496.9	493.4	491.6	489.2	488.7
10°	794.9	710.8	603.0	552.6	531.9	521.2	512.3	507.0	504.1	499.9	498.7
12.5°	855.3	748.7	623.7	573.4	551.4	537.2	525.4	517.7	513.5	508.2	507.0
15°	920.5	789.6	646.8	592.3	566.2	547.9	533.1	521.2	513.5	507.0	505.2
17.5°	988.0	831.0	667.5	605.3	573.4	551.4	530.1	514.1	504.6	496.4	494.0
20°	1063.8	873.7	681.2	607.7	571.0	542.0	517.1	496.9	487.5	476.2	473.8
22.5°	1143.2	913.3	687.1	602.4	558.0	524.2	497.5	476.8	463.2	451.3	447.8
25°	1220.2	948.9	684.1	587.6	538.4	499.3	472.1	450.7	435.9	424.1	421.1
27.5°	1301.9	978.5	673.5	565.7	511.8	472.1	446.0	427.6	414.0	401.0	398.0
30°	1393.7	1005.7	656.3	539.0	480.4	444.2	424.1	411.7	396.8	383.2	379.1
32.5°	1504.5	1030.0	631.4	507.0	452.5	419.9	408.7	399.2	382.0	367.8	364.9
35°	1631.2	1050.2	600.0	473.8	425.3	404.5	402.2	389.7	367.2	350.6	347.1
37.5°	1778.1	1069.7	562.7	441.3	405.1	397.4	398.0	376.7	349.5	329.3	327.0
40°	1936.3	1089.3	521.2	412.8	386.8	393.3	388.0	357.8	313.3	293.8	291.4
42.5°	2100.9	1110.6	479.2	386.2	371.4	377.3	369.6	319.8	287.9	277.8	276.6
45°	2249.6	1136.1	433.6	359.5	356.0	354.2	341.2	289.6	276.0	268.9	268.3
47.5°	2356.8	1131.9	385.0	334.1	339.4	333.5	293.8	275.4	264.2	254.7	252.3
50°	2337.3	1059.6	334.7	305.6	318.1	312.7	264.2	258.8	248.8	238.7	235.1
52.5°	2287.5	961.3	290.8	275.4	295.0	282.5	244.0	238.7	229.8	216.8	212.6
55°	2314.2	868.9	256.5	251.1	271.3	234.0	221.5	213.2	203.8	189.5	187.8
57.5°	2228.3	709.0	206.1	209.7	239.9	199.6	194.3	181.2	165.3	155.8	154.6
60°	1542.4	380.9	129.1	133.3	173.5	167.6	174.1	162.3	142.7	133.9	132.1
62.5°	708.4	152.8	70.5	67.5	91.2	113.7	149.3	148.1	123.8	109.6	108.4
65°	171.8	69.9	50.3	47.4	51.5	68.1	97.1	116.7	100.1	83.5	81.7
67.5°	55.7	56.9	46.2	43.2	45.6	50.9	58.0	64.6	64.0	58.6	57.5
70°	44.4	51.5	42.6	39.1	39.1	40.9	39.1	31.4	27.2	29.6	30.8
72.5°	33.2	39.1	33.8	30.2	29.0	28.4	24.3	17.8	12.4	11.3	10.7
75°	19.5	21.9	20.7	17.8	16.6	14.8	11.8	7.7	4.1	3.0	1.8
77.5°	3.6	4.1	4.7	3.6	3.0	2.4	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	0.6	0.6	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)