

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P527877

Luminaire Tested: **GLAN-SA2D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-830-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8176 lumens  
Efficiency: N/A  
Efficacy: 65.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

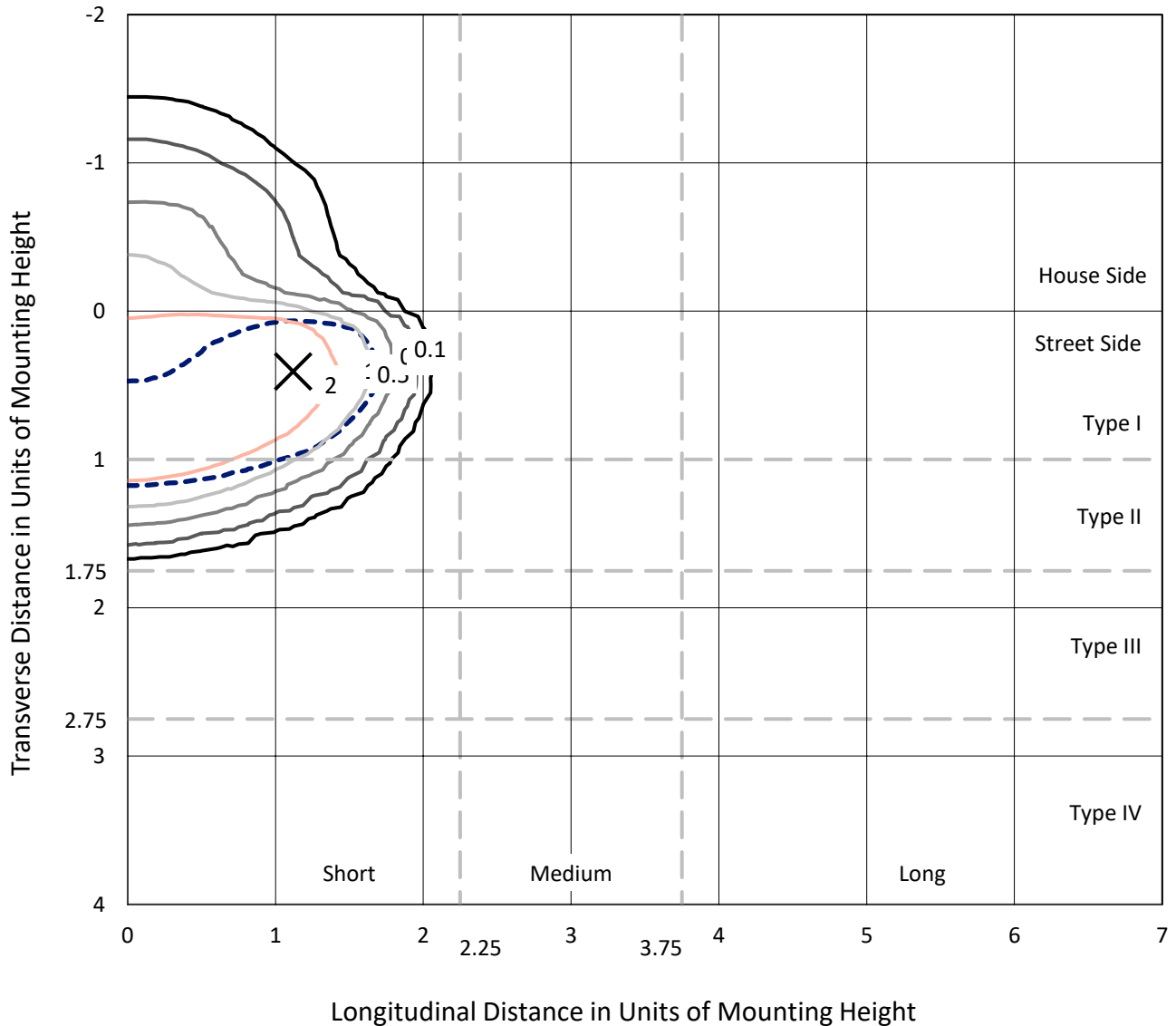
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

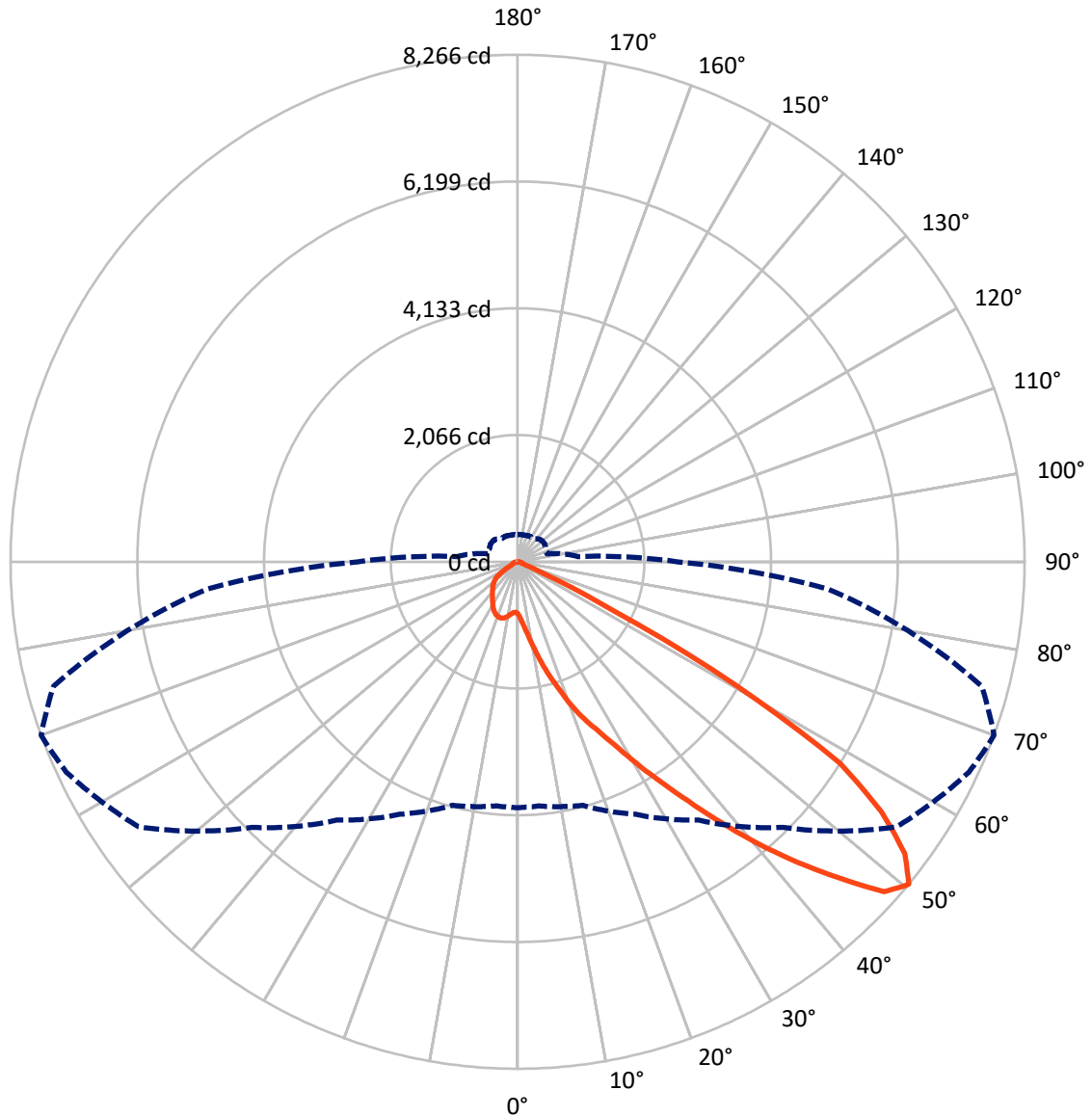
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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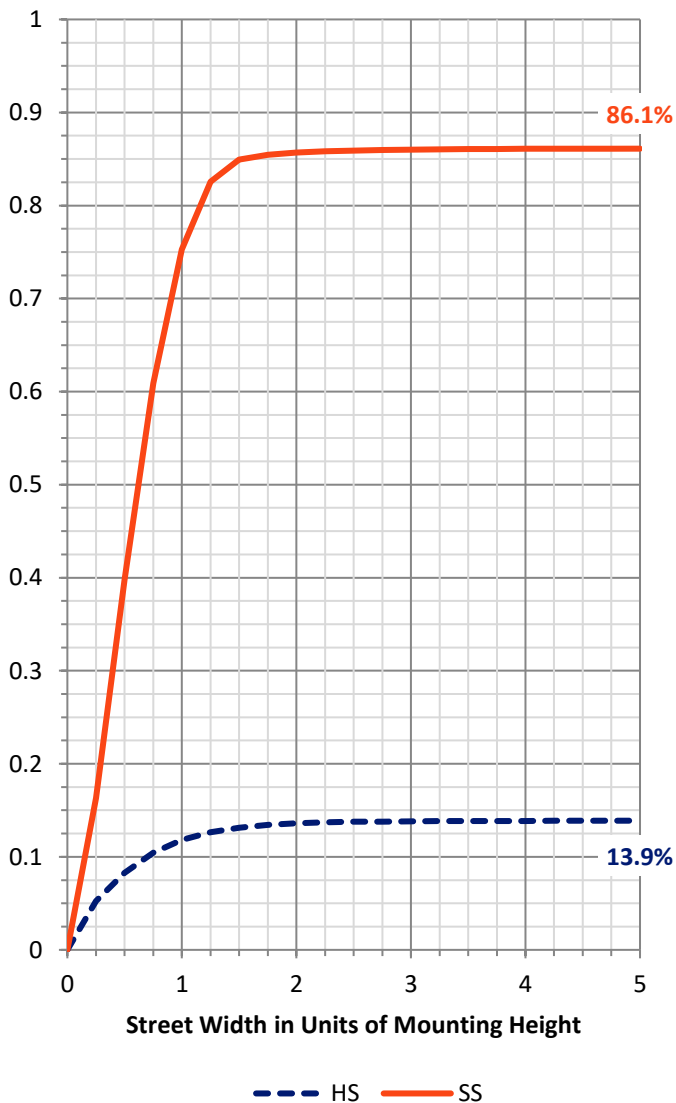
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1141.8	0.0	1141.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7034.2	0.0	7034.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8176.0	0.0	8176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	1.3
10°-20°	476.4	5.8
20°-30°	999.3	12.2
30°-40°	1722.5	21.1
40°-50°	2517.4	30.8
50°-60°	1960.6	24.0
60°-70°	332.2	4.1
70°-80°	45.6	0.6
80°-90°	11.8	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°	8176.0	100.0
0°-180°	8176.0	100.0

**Coefficient of Utilization**

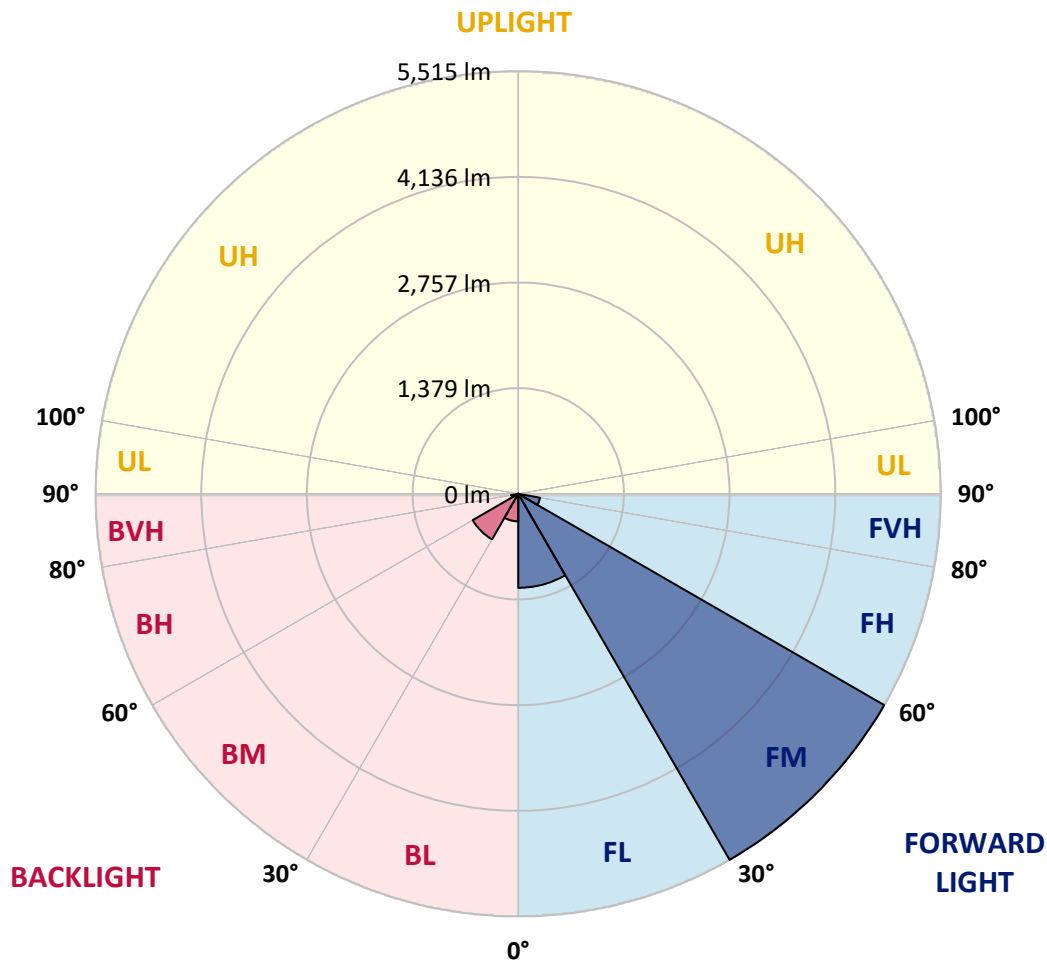


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.5	15.0			
FM (30°-60°)	5514.6	67.4			
FH (60°-80°)	287.6	3.5			G0/660
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	359.3	4.4	B1/500		
BM (30°-60°)	686.0	8.4	B1/1000		
BH (60°-80°)	90.2	1.1	B0/110		G0/110
BVH (80°-90°)	6.4	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-G0**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9
2.5°	1109.0	1100.9	1083.5	1051.2	1037.8	1005.5	986.7	950.4	927.5	902.0	873.8
5°	1562.0	1520.3	1494.8	1458.5	1352.3	1286.4	1177.6	1084.8	1041.8	994.7	930.2
7.5°	2029.8	2002.9	1968.0	1890.0	1817.4	1680.3	1493.5	1289.1	1201.8	1121.1	993.4
10°	2416.9	2341.7	2337.6	2279.8	2200.5	2036.5	1812.0	1558.0	1402.0	1283.8	1083.5
12.5°	2687.1	2618.6	2649.5	2642.8	2568.8	2418.3	2158.9	1822.8	1660.1	1476.0	1176.2
15°	2933.1	2904.9	2895.5	2887.4	2857.9	2746.3	2513.7	2145.4	1910.2	1688.4	1281.1
17.5°	3173.8	3101.2	3136.1	3142.8	3140.1	3039.3	2821.6	2451.9	2175.0	1912.9	1391.3
20°	3387.5	3394.2	3347.2	3337.8	3329.7	3325.7	3113.3	2755.7	2500.3	2148.1	1535.1
22.5°	3661.7	3614.7	3656.3	3629.5	3577.0	3544.8	3382.1	3024.5	2782.6	2431.7	1681.6
25°	3985.7	4023.3	3925.2	3914.4	3856.6	3745.1	3598.5	3325.7	3054.1	2695.2	1840.3
27.5°	4384.9	4319.1	4293.5	4234.4	4129.5	4082.5	3910.4	3636.2	3382.1	2972.1	1993.5
30°	4727.7	4710.2	4582.5	4512.6	4421.2	4419.9	4179.2	4056.9	3809.6	3406.3	2204.6
32.5°	5007.3	4930.7	4883.6	4835.2	4761.3	4781.5	4578.5	4514.0	4265.3	3809.6	2453.2
35°	5194.2	5139.0	5110.8	5036.9	5015.4	5105.4	5020.7	4993.9	4789.5	4376.9	2744.9
37.5°	5253.3	5270.8	5265.4	5172.6	5218.3	5461.7	5570.5	5500.6	5393.1	4975.0	3060.8
40°	5305.7	5317.8	5290.9	5399.8	5530.2	5807.1	6201.0	6085.4	6045.1	5581.3	3500.4
42.5°	5335.3	5325.9	5325.9	5514.1	5711.7	6268.2	6809.9	6733.3	6702.4	6226.5	4008.5
45°	5207.6	5116.2	5214.3	5469.7	5867.6	6495.4	7296.5	7402.7	7358.4	6994.1	4602.7
47.5°	4730.4	4786.8	4842.0	5183.4	5678.1	6425.5	7595.0	7956.6	8038.6	7639.3	4992.5
50°	4008.5	3996.4	4110.7	4540.9	5141.7	6124.4	7537.2	8116.5	8265.7	7832.9	5074.5
52.5°	2915.7	3004.4	3128.1	3555.5	4268.0	5344.7	6791.1	7703.9	7902.8	7595.0	5020.7
55°	1697.8	1599.6	1877.9	2239.5	2911.6	4031.4	5741.3	6828.8	7197.1	7162.1	4749.2
57.5°	680.2	658.7	754.1	1016.2	1519.0	2498.9	4175.2	5610.9	6201.0	6559.9	4173.9
60°	298.4	291.7	342.8	414.0	621.0	1152.0	2283.9	3489.7	4105.3	4583.9	2872.6
62.5°	215.1	212.4	237.9	263.5	328.0	501.4	959.8	1406.1	1752.9	2117.2	1286.4
65°	173.4	180.1	197.6	211.0	242.0	278.3	338.7	391.2	479.9	497.4	283.6
67.5°	141.1	146.5	162.7	177.4	182.8	150.6	155.9	137.1	137.1	122.3	98.1
70°	103.5	104.9	123.7	141.1	112.9	60.5	106.2	106.2	95.4	91.4	83.3
72.5°	76.6	78.0	92.8	87.4	44.4	37.6	78.0	86.0	78.0	73.9	67.2
75°	56.5	57.8	48.4	20.2	18.8	24.2	45.7	59.1	56.5	55.1	51.1
77.5°	10.8	8.1	6.7	9.4	13.4	20.2	29.6	36.3	37.6	40.3	37.6
80°	1.3	1.3	4.0	8.1	14.8	21.5	30.9	35.0	36.3	37.6	35.0
82.5°	0.0	1.3	4.0	8.1	14.8	20.2	26.9	30.9	33.6	35.0	33.6
85°	0.0	1.3	2.7	6.7	12.1	14.8	13.4	9.4	8.1	9.4	6.7
87.5°	0.0	0.0	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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°	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9
2.5°	857.6	852.2	833.4	813.3	795.8	803.9	795.8	789.1	791.8	789.1	786.4
5°	904.7	880.5	840.2	822.7	807.9	806.5	802.5	801.2	802.5	802.5	790.4
7.5°	949.0	910.1	867.0	848.2	830.7	832.1	822.7	822.7	821.3	814.6	811.9
10°	1016.2	963.8	908.7	875.1	853.6	849.6	840.2	830.7	830.7	830.7	817.3
12.5°	1090.2	1024.3	949.0	910.1	884.5	864.3	849.6	846.9	832.1	829.4	822.7
15°	1154.7	1071.4	975.9	922.2	889.9	863.0	840.2	825.4	818.6	814.6	809.2
17.5°	1217.9	1111.7	990.7	922.2	887.2	856.3	832.1	818.6	802.5	805.2	794.4
20°	1302.6	1154.7	994.7	904.7	861.7	832.1	799.8	793.1	783.7	775.6	778.3
22.5°	1384.6	1185.6	982.6	883.2	821.3	786.4	770.3	762.2	758.2	751.4	742.0
25°	1458.5	1219.2	963.8	844.2	778.3	752.8	738.0	736.6	727.2	727.2	709.8
27.5°	1533.8	1231.3	931.6	798.5	740.7	725.9	719.2	716.5	712.4	703.0	690.9
30°	1619.8	1235.4	884.5	751.4	707.1	690.9	700.4	707.1	689.6	672.1	677.5
32.5°	1691.1	1225.9	828.1	707.1	682.9	674.8	693.6	700.4	680.2	661.4	652.0
35°	1777.1	1203.1	772.9	672.1	658.7	674.8	690.9	690.9	650.6	627.8	622.4
37.5°	1907.5	1177.6	721.9	642.5	633.1	666.7	688.3	673.5	610.3	582.1	575.3
40°	2047.3	1161.4	672.1	613.0	619.7	653.3	665.4	619.7	555.2	537.7	532.3
42.5°	2250.3	1129.2	627.8	587.4	607.6	634.5	634.5	552.5	528.3	518.9	517.5
45°	2503.0	1106.3	588.8	565.9	590.1	596.8	575.3	517.5	500.1	497.4	498.7
47.5°	2626.6	1062.0	548.5	540.4	557.9	559.2	502.7	489.3	474.5	470.5	467.8
50°	2607.8	982.6	496.0	506.8	531.0	517.5	458.4	461.1	447.6	446.3	439.6
52.5°	2476.1	857.6	443.6	469.1	496.0	457.0	422.1	419.4	419.4	401.9	395.2
55°	2195.1	690.9	380.4	412.7	444.9	384.5	375.0	372.4	365.6	349.5	345.5
57.5°	1738.1	506.8	286.3	321.3	377.7	326.7	325.3	313.2	295.7	283.6	283.6
60°	1033.7	291.7	180.1	196.3	250.0	264.8	294.4	289.0	259.4	240.6	235.2
62.5°	471.8	150.6	114.3	116.9	134.4	172.1	231.2	267.5	225.8	193.6	190.9
65°	158.6	111.6	94.1	90.1	92.8	103.5	138.5	189.5	180.1	149.2	143.8
67.5°	96.8	99.5	88.7	82.0	82.0	80.7	79.3	86.0	106.2	103.5	104.9
70°	83.3	91.4	82.0	73.9	71.2	67.2	56.5	47.0	40.3	47.0	49.7
72.5°	67.2	72.6	69.9	63.2	56.5	51.1	40.3	30.9	22.9	20.2	20.2
75°	49.7	53.8	56.5	48.4	43.0	36.3	29.6	20.2	12.1	8.1	8.1
77.5°	36.3	40.3	41.7	37.6	32.3	25.5	18.8	13.4	6.7	2.7	2.7
80°	30.9	36.3	40.3	37.6	33.6	24.2	17.5	9.4	5.4	1.3	1.3
82.5°	29.6	36.3	40.3	36.3	32.3	22.9	17.5	10.8	4.0	1.3	1.3
85°	6.7	9.4	12.1	14.8	17.5	17.5	13.4	8.1	4.0	1.3	1.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	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)