

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: P653179

Luminaire Tested: **GLAN-SA1D-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6708.7 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

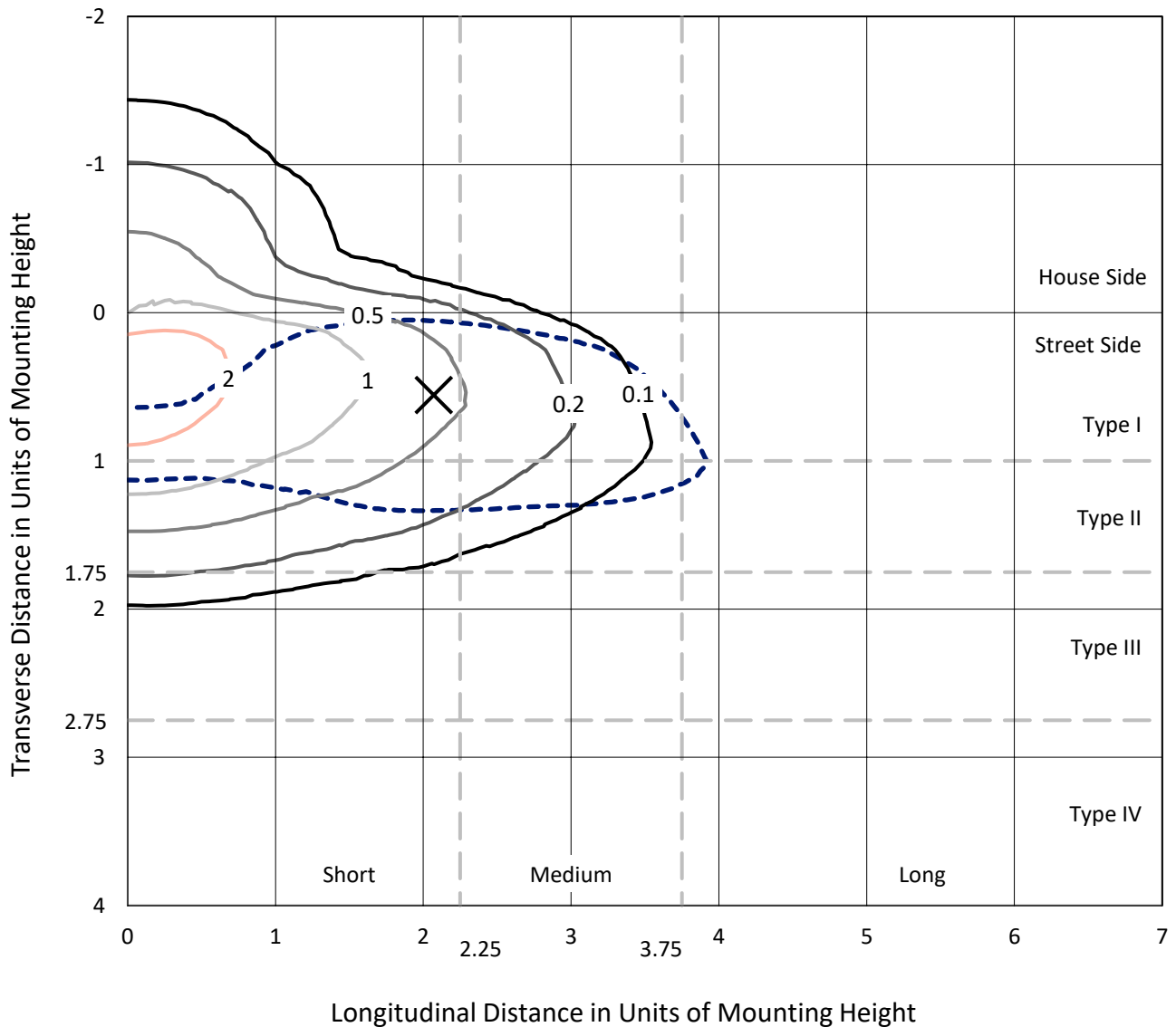
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

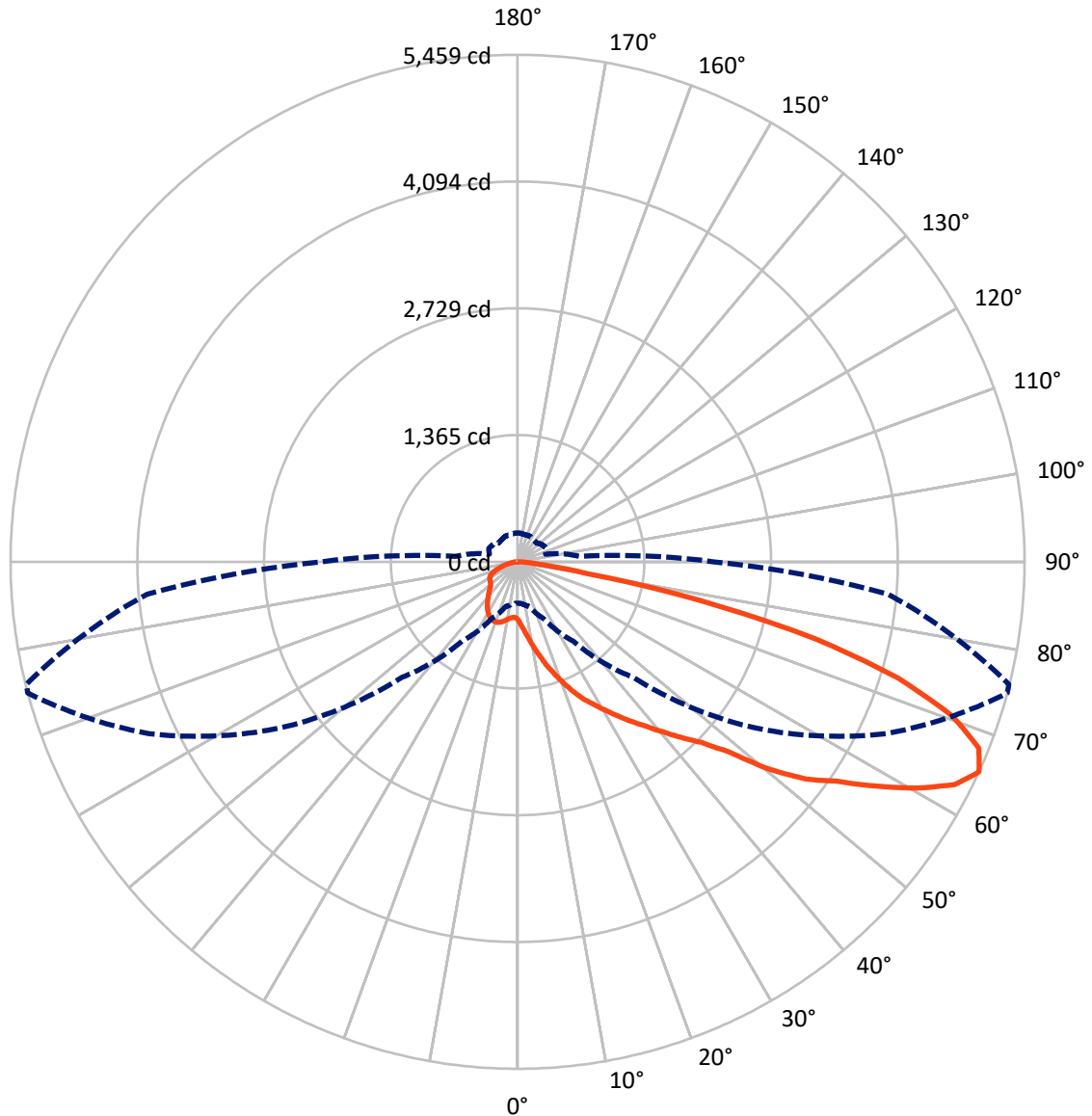
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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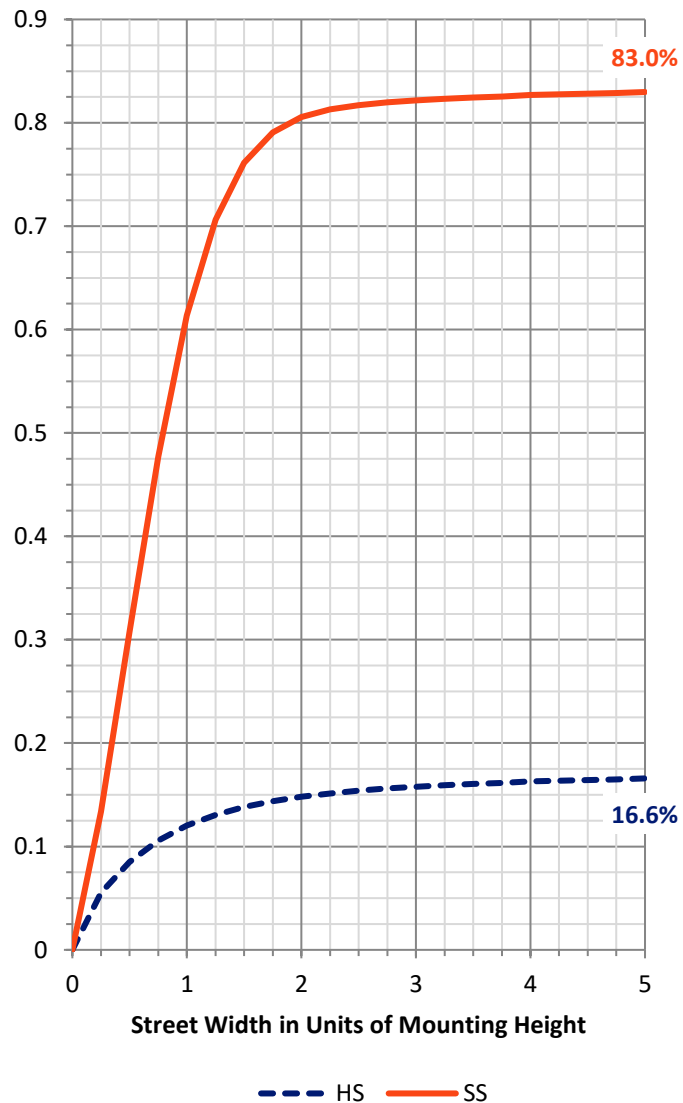
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1127.8	0.0	1127.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	5580.8	0.0	5580.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	6708.7	0.0	6708.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	1.1
10°-20°	296.6	4.4
20°-30°	573.0	8.5
30°-40°	930.7	13.9
40°-50°	1280.3	19.1
50°-60°	1511.6	22.5
60°-70°	1324.4	19.7
70°-80°	632.3	9.4
80°-90°	84.1	1.3
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°	6708.7	100.0
0°-180°	6708.7	100.0

**Coefficient of Utilization**

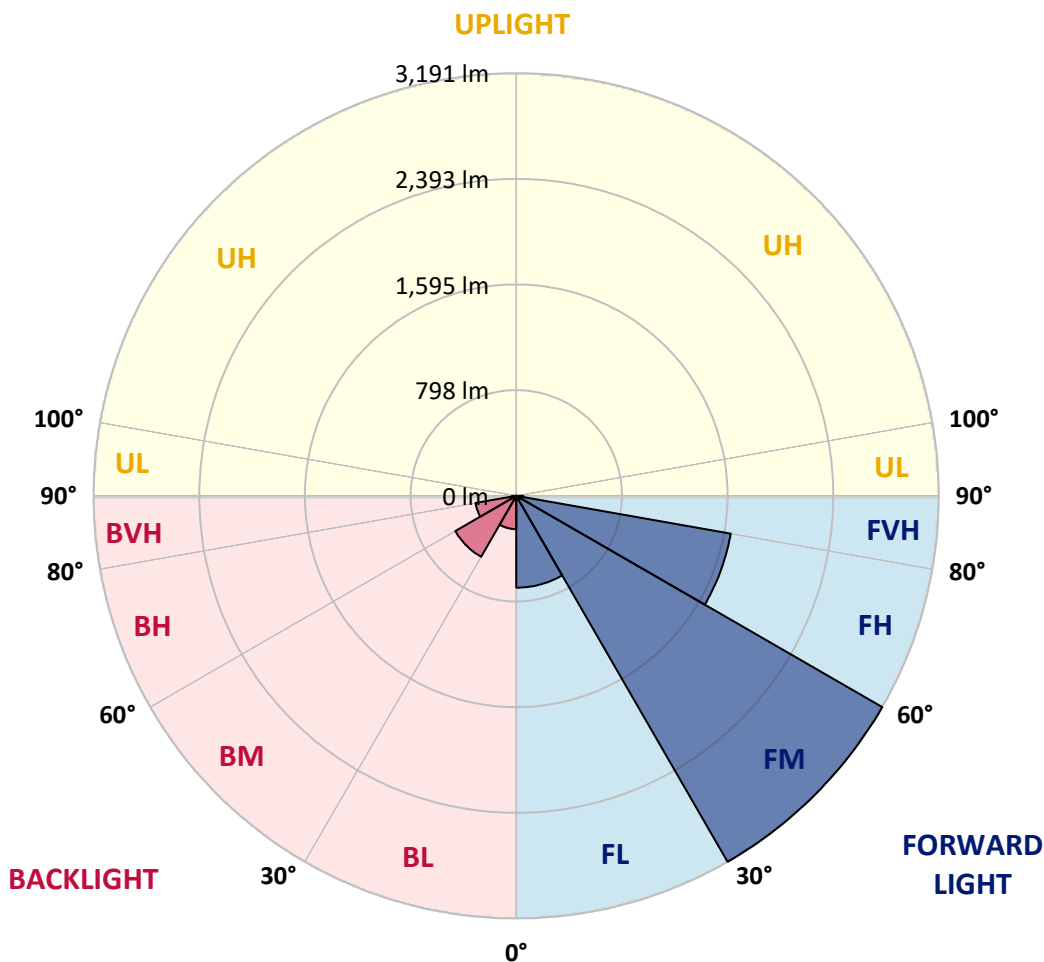


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.6	10.3			
FM (30°-60°)	3190.8	47.6			
FH (60°-80°)	1643.9	24.5			G1/1800
FVH (80°-90°)	52.6	0.8			G1/100
BL (0°-30°)	251.8	3.8	B1/500		
BM (30°-60°)	531.7	7.9	B1/1000		
BH (60°-80°)	312.7	4.7	B1/500		G1/500
BVH (80°-90°)	31.6	0.5			G1/100
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°	65°	75°	76°	85°
0°	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3
2.5°	828.2	822.8	816.9	800.9	783.8	764.5	736.9	710.3	675.0	673.9	647.7
5°	1057.8	1054.1	1028.3	1013.4	973.7	921.0	876.2	806.7	742.3	734.7	683.7
7.5°	1268.8	1254.6	1244.8	1217.9	1178.6	1110.9	1024.3	930.4	822.8	812.6	728.1
10°	1427.8	1426.4	1421.3	1398.0	1368.6	1301.2	1205.2	1070.5	924.6	904.6	782.0
12.5°	1546.9	1547.9	1547.2	1546.9	1525.7	1468.6	1364.5	1222.6	1027.6	1013.4	844.2
15°	1625.1	1636.0	1640.4	1658.5	1660.4	1622.1	1532.6	1369.7	1143.7	1122.6	911.1
17.5°	1676.7	1682.2	1702.6	1733.5	1758.6	1751.7	1672.0	1505.7	1262.3	1227.0	980.6
20°	1726.2	1735.7	1751.3	1793.5	1837.9	1858.3	1802.3	1645.1	1379.8	1357.3	1057.4
22.5°	1829.2	1842.6	1848.1	1869.6	1907.5	1943.5	1918.0	1778.6	1508.7	1478.1	1139.0
25°	2003.5	2017.7	2002.4	1997.3	2009.7	2027.5	2022.0	1904.5	1630.2	1586.5	1216.1
27.5°	2230.6	2232.4	2202.6	2174.2	2143.6	2134.5	2117.7	2016.2	1735.7	1699.3	1293.5
30°	2474.4	2465.6	2416.1	2364.8	2313.2	2262.2	2214.2	2123.9	1853.2	1811.3	1369.7
32.5°	2700.7	2696.0	2641.0	2561.3	2474.0	2425.9	2328.8	2232.8	1979.1	1938.8	1447.9
35°	2870.2	2877.1	2816.8	2729.8	2634.4	2591.9	2469.3	2347.0	2109.4	2065.3	1533.0
37.5°	2990.7	2987.1	2933.6	2858.2	2774.5	2737.5	2633.3	2471.8	2249.5	2207.3	1626.2
40°	3033.7	3031.5	2991.8	2936.9	2883.7	2870.6	2805.2	2606.4	2410.0	2360.4	1738.3
42.5°	3006.3	3011.0	2984.9	2970.0	2960.2	2969.6	2975.8	2783.0	2585.0	2539.5	1859.8
45°	2922.6	2920.1	2916.5	2940.8	2996.1	3058.4	3144.6	2949.6	2775.3	2738.9	2022.8
47.5°	2773.1	2791.3	2800.4	2867.7	2988.5	3135.9	3338.9	3173.0	3051.5	3019.8	2271.3
50°	2563.9	2578.4	2632.2	2752.0	2932.1	3165.0	3528.8	3538.3	3512.1	3452.8	2541.3
52.5°	2237.1	2259.7	2370.6	2590.0	2816.4	3153.0	3643.9	3851.6	3886.2	3841.8	2807.3
55°	1871.4	1903.1	2020.3	2308.0	2657.1	3087.5	3723.2	4033.2	4171.1	4130.0	3063.5
57.5°	1513.4	1546.9	1667.3	1946.0	2379.0	2942.7	3775.2	4235.5	4559.0	4505.5	3382.2
60°	1134.2	1169.2	1272.4	1559.6	1983.2	2659.6	3739.9	4410.9	4946.5	4923.6	3701.3
62.5°	731.8	770.4	860.2	1097.8	1524.3	2272.8	3551.0	4507.7	5282.0	5254.4	3934.2
65°	445.7	450.1	499.6	681.5	1043.3	1759.7	3119.1	4379.3	5458.8	5450.5	4005.2
67.5°	288.2	295.1	317.6	408.3	625.5	1222.2	2494.0	3955.3	5355.5	5352.6	3858.5
70°	243.5	245.7	255.8	275.4	363.5	741.2	1751.3	3279.6	4962.9	4962.9	3506.0
72.5°	217.6	220.5	224.1	230.3	259.4	419.9	1045.0	2552.9	4285.0	4313.4	2984.1
75°	197.6	196.9	199.1	200.2	221.3	274.3	540.3	1888.1	3314.9	3258.1	2161.0
77.5°	169.2	170.3	169.2	173.9	195.4	208.9	274.3	1267.1	2009.0	1935.5	1084.7
80°	139.0	140.8	142.6	145.6	167.0	158.6	164.8	577.4	743.0	727.4	335.1
82.5°	104.5	107.0	109.9	116.8	131.4	104.8	104.0	246.7	268.2	245.7	123.4
85°	42.2	49.9	75.4	82.2	82.6	57.5	64.0	102.9	109.5	107.0	48.4
87.5°	9.8	11.6	24.4	36.8	33.8	21.4	23.6	33.5	38.2	35.3	16.4
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°	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3
2.5°	635.7	622.9	601.1	584.4	572.4	561.8	555.3	551.3	549.8	549.4	549.8
5°	657.2	634.6	600.1	578.2	566.2	559.3	555.3	554.9	555.3	555.6	554.6
7.5°	686.6	654.2	609.1	588.8	579.6	574.6	572.7	572.0	572.4	572.0	572.0
10°	726.0	681.5	627.0	605.9	598.2	592.4	589.5	587.7	586.2	584.7	584.0
12.5°	769.3	711.7	646.2	625.9	614.9	605.9	599.3	594.6	591.3	588.0	587.3
15°	817.6	743.8	667.7	639.3	623.7	610.2	599.0	591.3	585.5	580.7	580.4
17.5°	863.9	774.0	682.3	645.6	622.6	603.7	588.8	578.2	571.0	564.7	564.0
20°	913.3	802.7	688.8	641.5	611.7	588.8	569.1	556.4	548.0	541.1	540.0
22.5°	963.2	827.1	688.1	628.8	592.7	565.8	545.1	531.6	521.8	514.9	512.3
25°	1010.9	846.7	679.0	608.4	566.6	538.6	517.5	505.0	496.4	487.9	487.9
27.5°	1053.8	858.4	661.9	583.7	539.6	510.2	493.4	482.1	474.2	468.7	465.4
30°	1096.0	863.9	638.6	552.4	511.2	486.1	472.6	466.2	458.8	452.6	452.0
32.5°	1133.8	862.8	609.5	521.8	484.3	466.5	461.0	455.9	448.3	439.6	437.4
35°	1170.6	855.5	574.9	488.3	461.8	454.8	456.3	449.0	435.2	424.3	422.4
37.5°	1210.6	842.3	537.1	461.0	442.9	449.3	453.0	437.0	414.4	397.4	393.3
40°	1256.8	827.5	497.8	433.7	427.9	444.3	444.3	414.8	383.9	373.3	370.5
42.5°	1311.0	815.1	465.1	410.8	415.5	431.9	430.1	385.3	372.6	367.2	365.7
45°	1396.9	810.7	431.2	390.8	405.4	417.4	402.4	375.2	367.9	363.5	362.1
47.5°	1532.6	815.8	401.3	375.8	393.7	402.8	371.6	368.3	363.1	356.9	356.2
50°	1658.5	811.1	380.2	367.5	383.5	385.3	358.8	359.9	356.9	350.0	348.6
52.5°	1761.6	796.2	366.8	363.1	374.8	354.8	346.7	350.8	349.7	340.9	339.5
55°	1874.7	787.1	360.2	363.1	368.9	328.2	335.5	341.3	339.8	333.7	333.3
57.5°	2011.8	788.9	355.5	364.2	363.1	314.8	324.2	331.1	330.8	328.9	328.9
60°	2152.3	789.6	348.3	363.9	356.2	304.2	312.6	322.4	323.1	324.2	324.2
62.5°	2198.9	758.0	334.0	357.3	340.9	294.0	301.7	315.1	314.4	317.3	317.6
65°	2111.9	670.3	312.9	342.4	321.3	286.7	293.3	305.6	301.7	309.3	310.7
67.5°	1922.4	554.6	280.2	315.5	299.5	279.1	287.8	292.6	285.3	300.2	300.6
70°	1661.5	433.0	238.7	277.3	274.8	271.1	283.5	276.2	266.0	284.2	280.6
72.5°	1389.2	330.8	190.7	226.7	241.6	259.1	275.8	255.1	240.9	246.3	239.8
75°	1043.6	244.6	153.2	177.5	201.3	242.0	268.9	229.6	207.8	202.7	201.3
77.5°	532.0	159.7	114.6	132.8	151.0	218.7	259.4	199.7	172.2	164.1	160.5
80°	190.0	99.3	80.8	91.7	101.8	188.1	226.7	165.2	133.6	132.1	133.6
82.5°	88.1	64.0	54.2	60.0	60.4	125.6	172.8	123.4	101.5	154.3	130.3
85°	37.8	32.0	30.5	29.9	27.7	56.0	97.1	66.2	103.4	46.2	42.6
87.5°	11.3	12.7	11.3	8.4	6.2	6.2	9.8	3.6	2.5	1.9	1.9
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)