

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: P324784

Luminaire Tested: **GAN-SA0D-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57253 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

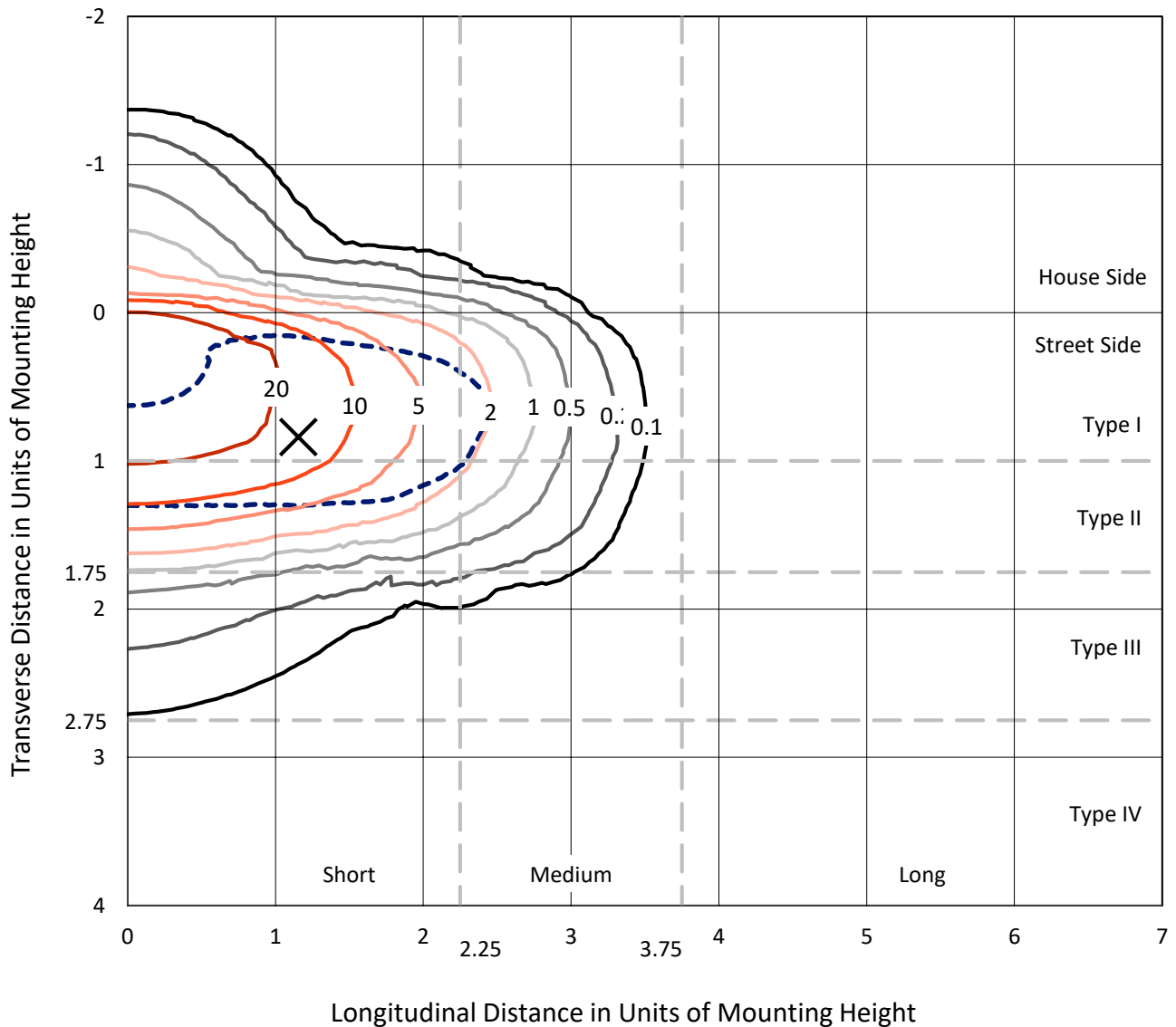
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324784  
 CATALOG NUMBER: GAN-SA0D-730-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

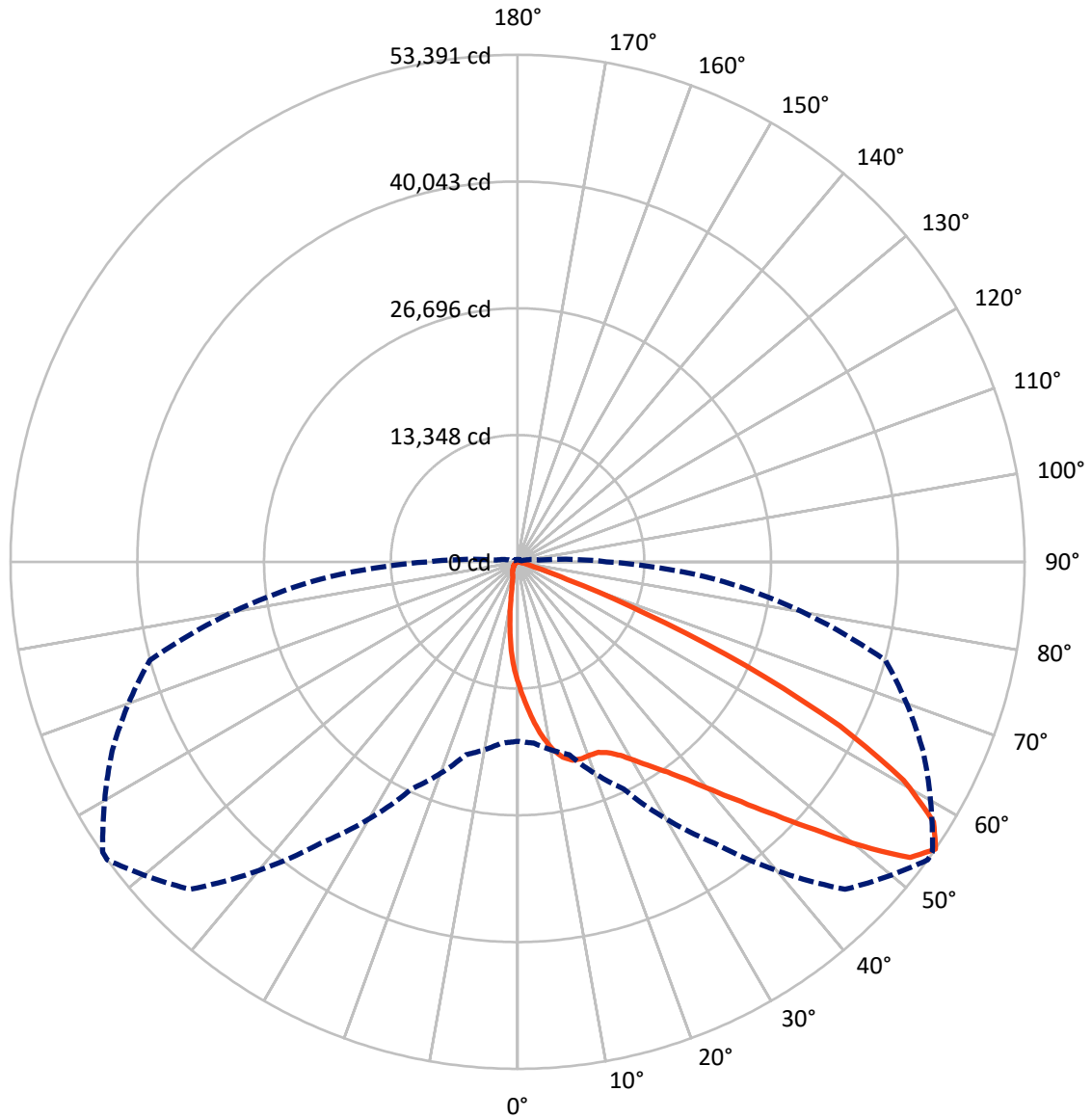
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P324784  
CATALOG NUMBER: GAN-SA0D-730-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P324784  
 CATALOG NUMBER: GAN-SA0D-730-U-AFL-HSS

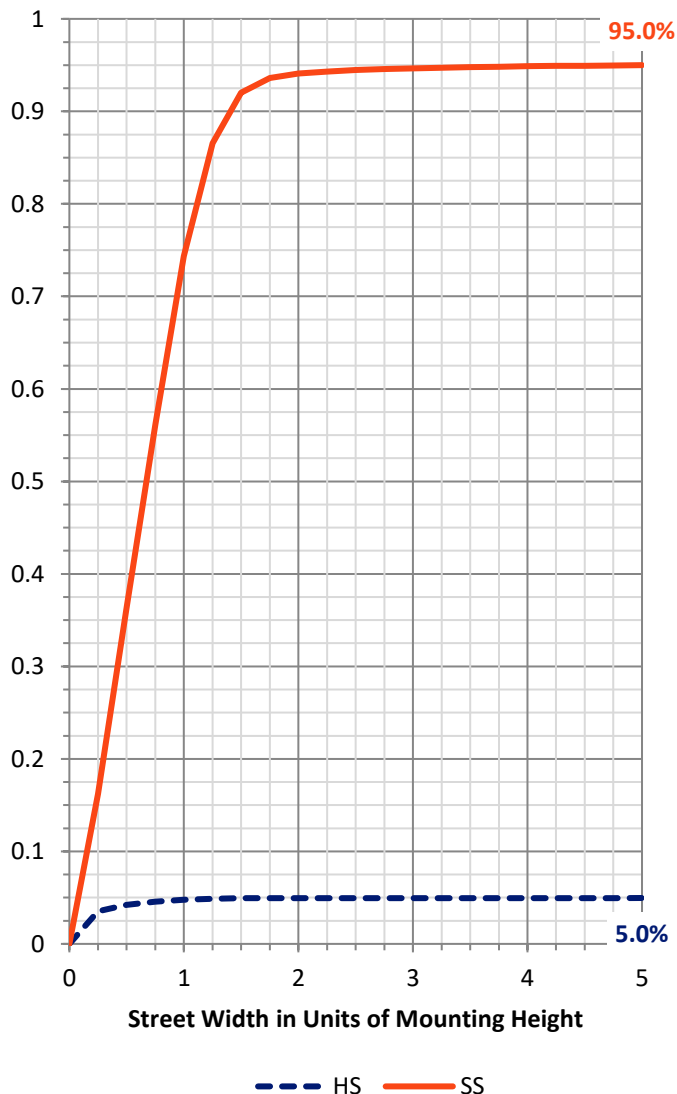
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2856.5	0.0	2856.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	54396.5	0.0	54396.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	57253.0	0.0	57253.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1180.8	2.1
10°-20°	3238.4	5.7
20°-30°	5529.0	9.7
30°-40°	8873.0	15.5
40°-50°	14179.2	24.8
50°-60°	15193.4	26.5
60°-70°	7800.7	13.6
70°-80°	1181.6	2.1
80°-90°	76.9	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°	57253.0	100.0
0°-180°	57253.0	100.0

**Coefficient of Utilization**

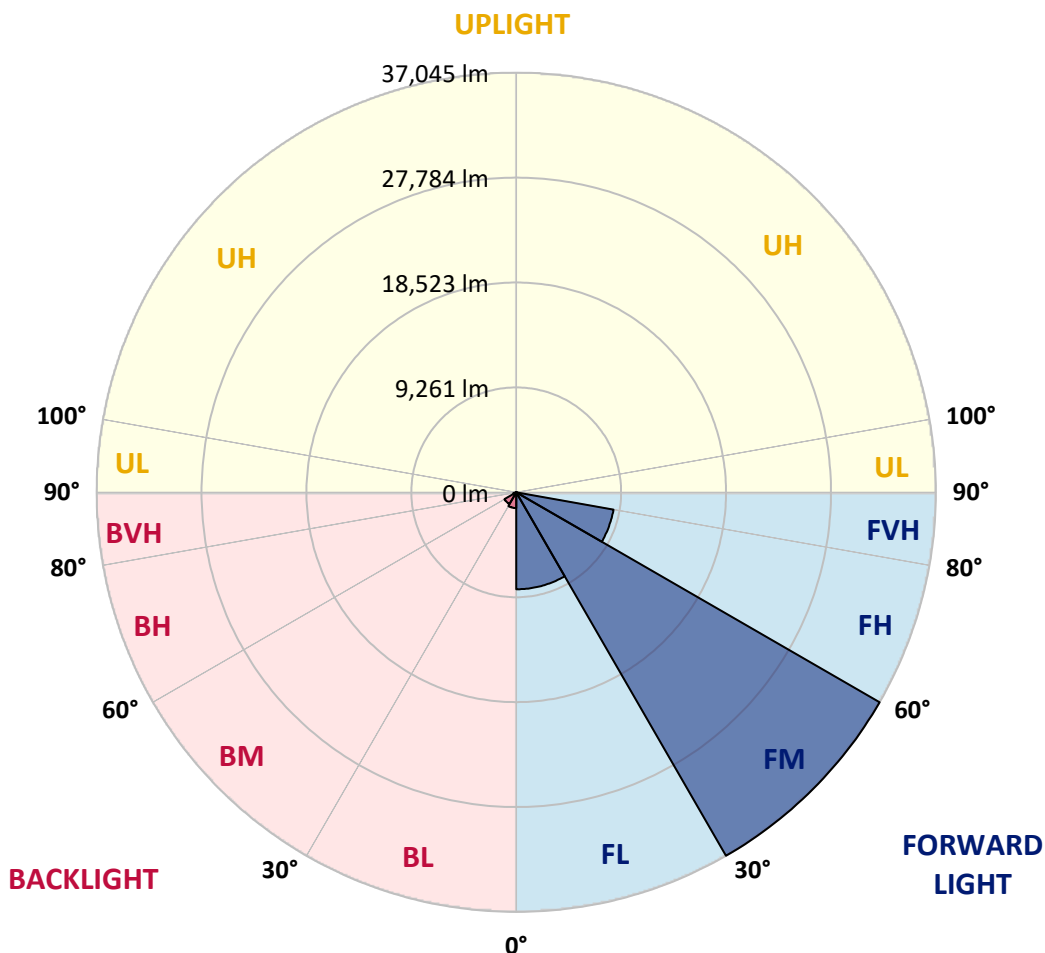


REPORT NUMBER: P324784  
 CATALOG NUMBER: GAN-SA0D-730-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8558.3	14.9			
FM (30°-60°)	37045.2	64.7			
FH (60°-80°)	8719.1	15.2			G4/12000
FVH (80°-90°)	73.8	0.1			G1/100
BL (0°-30°)	1389.8	2.4	B3/2500		
BM (30°-60°)	1200.4	2.1	B2/2500		
BH (60°-80°)	263.2	0.5	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





REPORT NUMBER: P324784

CATALOG NUMBER: GAN-SAOD-730-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4
2.5°	16091.0	15851.2	15858.6	15749.8	15351.7	15040.2	14716.3	14639.7	14135.3	13606.2	13096.8
5°	18872.6	18697.0	18655.0	18444.8	17891.0	17305.0	16677.0	16531.1	15544.6	14461.6	13396.0
7.5°	20301.7	20304.2	20269.5	20192.9	19846.7	19278.1	18511.6	18358.3	17015.7	15391.3	13707.5
10°	19886.3	19980.3	20173.1	20427.8	20692.3	20620.6	20044.5	19906.1	18447.3	16375.4	14053.7
12.5°	18917.1	18929.4	19144.6	19562.4	20323.9	21105.2	21115.1	21068.2	19814.6	17403.9	14434.4
15°	18434.9	18481.9	18561.0	18830.5	19552.5	20803.6	21698.6	21765.4	21068.2	18496.8	14839.9
17.5°	18751.4	18818.2	18751.4	18783.6	19201.4	20326.4	21800.0	21970.6	22163.5	19577.2	15223.2
20°	19609.4	19671.2	19552.5	19421.5	19503.1	20187.9	21728.3	21958.3	23021.4	20536.6	15544.6
22.5°	20766.5	20791.2	20610.7	20395.6	20336.3	20657.7	21787.7	22025.0	23708.8	21404.4	15747.3
25°	22039.8	22062.1	21837.1	21589.9	21448.9	21580.0	22274.7	22452.8	24314.5	22232.7	15863.5
27.5°	23426.9	23446.7	23164.8	22860.7	22697.5	22702.5	23078.3	23268.7	24959.9	23177.2	15957.5
30°	24893.1	24883.2	24623.6	24200.8	23993.1	23988.2	24235.4	24428.3	25894.5	24388.7	16086.1
32.5°	26539.8	26520.0	26151.6	25627.4	25392.6	25427.2	25647.2	25758.5	27054.1	25679.4	16316.0
35°	28708.2	28651.3	28095.0	27444.7	27012.0	26999.7	27185.1	27274.1	28532.6	27242.0	16699.3
37.5°	31521.9	31470.0	30715.8	29771.3	29163.1	28935.6	29155.7	29269.4	30641.7	29247.2	17314.9
40°	34296.0	34244.1	33796.6	32931.2	31994.1	31447.7	31620.8	31741.9	33274.9	31680.1	18091.3
42.5°	36209.7	36254.2	36410.0	36481.7	35604.0	34456.7	34535.9	34661.9	36041.6	34281.2	18978.9
45°	36714.1	36810.5	37690.8	39419.0	39747.9	38852.8	38024.5	38093.8	38852.8	36882.3	19866.5
47.5°	35198.5	35376.5	37075.1	40289.4	43073.4	43706.3	42138.8	42047.3	41550.3	38986.3	20497.0
50°	31754.3	31917.5	34118.0	38872.6	44082.2	48339.8	47068.9	46799.4	43916.5	40244.8	20719.5
52.5°	26769.7	26967.5	28755.2	34412.2	42180.8	50406.8	51737.0	51512.0	45652.2	40343.7	20756.6
55°	18904.7	19144.6	21036.0	26374.1	36155.3	48762.6	53391.1	53324.4	47093.7	40081.7	20835.7
57.5°	10624.3	10797.4	12837.2	16906.9	26480.5	42472.6	51662.8	52105.4	47964.0	39626.7	20954.4
60°	4717.5	4764.5	5820.3	8416.4	15502.6	32459.0	46715.4	47462.1	47217.3	39018.5	21154.7
62.5°	2615.9	2576.3	2576.3	3498.6	6737.6	20094.0	38093.8	39327.6	44030.2	38299.0	21164.6
65°	2049.7	2012.6	1906.3	1921.1	2566.5	8918.3	26379.1	28572.2	37977.6	36190.0	20452.5
67.5°	1738.2	1706.0	1599.7	1557.7	1594.8	2942.3	14493.8	16771.0	28817.0	30708.4	17715.4
70°	1468.7	1446.4	1392.0	1340.1	1246.1	1453.8	5545.8	7093.6	17757.5	20427.8	12093.0
72.5°	1181.9	1172.0	1191.7	1147.2	1033.5	969.2	1896.4	2297.0	7976.3	9116.1	4982.1
75°	1018.7	1013.7	1023.6	979.1	850.5	675.0	964.3	1053.3	2250.0	2230.2	1008.8
77.5°	662.6	670.0	848.1	828.3	731.9	450.0	499.4	539.0	682.4	511.8	306.6
80°	422.8	417.9	430.2	687.4	657.7	343.7	249.7	262.1	328.8	252.2	148.3
82.5°	257.1	252.2	281.9	321.4	331.3	239.8	153.3	155.8	205.2	163.2	79.1
85°	22.3	29.7	170.6	158.2	113.7	74.2	74.2	79.1	108.8	96.4	44.5
87.5°	0.0	0.0	29.7	44.5	24.7	27.2	27.2	29.7	42.0	42.0	22.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324784  
 CATALOG NUMBER: GAN-SA0D-730-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4	12822.4
2.5°	12832.3	12575.1	12055.9	11556.5	11133.7	10725.7	10260.9	9801.0	9585.9	9499.3	9410.3
5°	12854.5	12325.4	11254.8	10176.8	9059.2	8052.9	7195.0	6314.8	5874.7	5681.8	5592.8
7.5°	12884.2	12078.2	10347.4	8537.5	6737.6	5372.7	4181.0	3414.5	3083.2	3031.3	2902.7
10°	12889.1	11779.0	9294.1	6727.7	4517.3	3239.0	2492.3	2096.7	1950.8	1926.1	1884.0
12.5°	12899.0	11425.4	8124.6	4982.1	3011.5	2165.9	1802.5	1671.4	1631.8	1629.4	1629.4
15°	12928.7	11054.5	6910.6	3590.1	2163.4	1715.9	1582.4	1530.5	1515.6	1523.1	1520.6
17.5°	12928.7	10616.9	5718.9	2675.2	1748.1	1542.8	1468.7	1434.0	1429.1	1436.5	1439.0
20°	12834.7	10085.3	4626.0	2081.8	1550.3	1431.6	1364.8	1332.7	1320.3	1325.3	1327.7
22.5°	12609.7	9432.6	3735.9	1723.3	1419.2	1330.2	1258.5	1209.1	1189.3	1191.7	1191.7
25°	12258.6	8658.7	2922.5	1490.9	1312.9	1221.4	1137.3	1080.5	1068.1	1065.6	1070.6
27.5°	11808.7	7803.2	2326.6	1312.9	1186.8	1100.3	1016.2	969.2	959.3	961.8	964.3
30°	11366.1	6915.6	1834.6	1162.1	1045.9	964.3	900.0	877.7	877.7	885.2	887.6
32.5°	10960.6	6062.6	1451.4	1031.0	919.8	845.6	808.5	806.0	818.4	823.3	825.8
35°	10612.0	5273.8	1201.6	929.7	820.9	756.6	744.2	754.1	768.9	778.8	781.3
37.5°	10364.7	4569.2	1050.8	845.6	744.2	692.3	689.8	709.6	729.4	751.6	756.6
40°	10260.9	3973.3	947.0	771.4	682.4	642.8	635.4	662.6	699.7	731.9	736.8
42.5°	10174.3	3486.2	858.0	699.7	633.0	576.1	573.6	608.2	652.7	684.9	692.3
45°	10100.2	3095.6	776.4	623.1	568.7	494.5	501.9	546.4	581.0	615.7	623.1
47.5°	9946.9	2774.1	687.4	541.5	469.8	422.8	437.6	477.2	504.4	556.3	563.7
50°	9672.4	2512.1	595.9	442.6	383.2	365.9	388.2	415.4	450.0	494.5	499.4
52.5°	9487.0	2314.3	516.8	370.9	316.5	321.4	343.7	353.6	373.3	390.7	385.7
55°	9380.7	2205.5	452.5	321.4	269.5	284.3	289.3	276.9	267.0	249.7	242.3
57.5°	9368.3	2106.6	403.0	279.4	237.4	244.8	227.5	185.4	150.8	131.0	126.1
60°	9348.5	1985.4	363.5	234.9	210.2	200.3	163.2	101.4	71.7	66.8	66.8
62.5°	9133.4	1797.5	333.8	197.8	178.0	150.8	94.0	47.0	39.6	42.0	42.0
65°	8448.5	1535.4	304.1	160.7	140.9	108.8	47.0	27.2	14.8	17.3	17.3
67.5°	7182.6	1223.9	272.0	123.6	106.3	69.2	27.2	12.4	0.0	0.0	0.0
70°	4809.0	759.1	229.9	86.5	69.2	42.0	19.8	2.5	0.0	0.0	0.0
72.5°	1844.5	410.4	185.4	51.9	44.5	29.7	12.4	0.0	0.0	0.0	0.0
75°	415.4	269.5	128.6	37.1	32.1	19.8	4.9	0.0	0.0	0.0	0.0
77.5°	158.2	195.3	74.2	24.7	22.3	12.4	0.0	0.0	0.0	0.0	0.0
80°	76.6	116.2	34.6	14.8	12.4	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	39.6	44.5	14.8	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.3	22.3	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	7.4	2.5	2.5	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)