

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: P450211

Luminaire Tested: **GLAN-SA1A-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2841 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

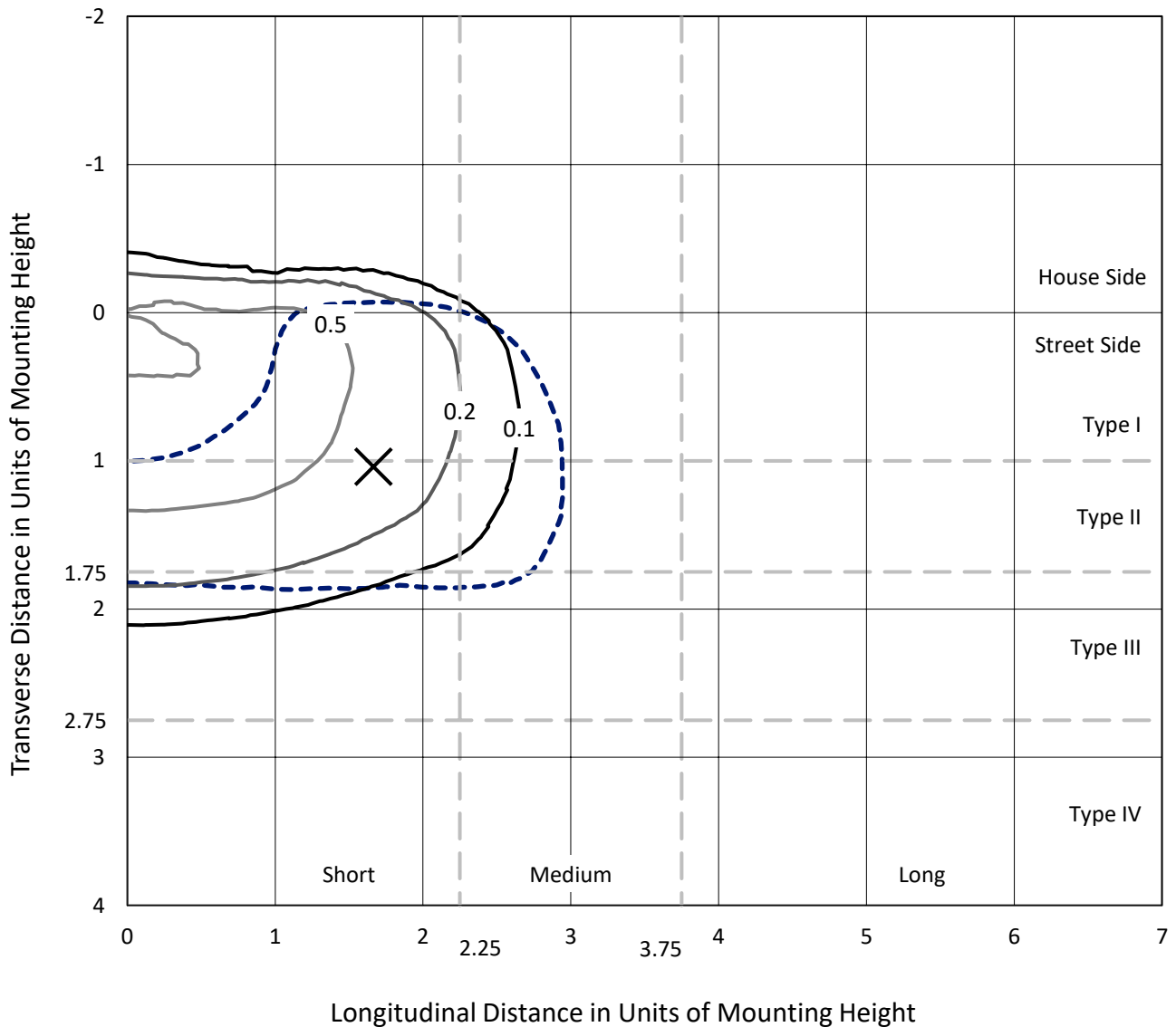
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

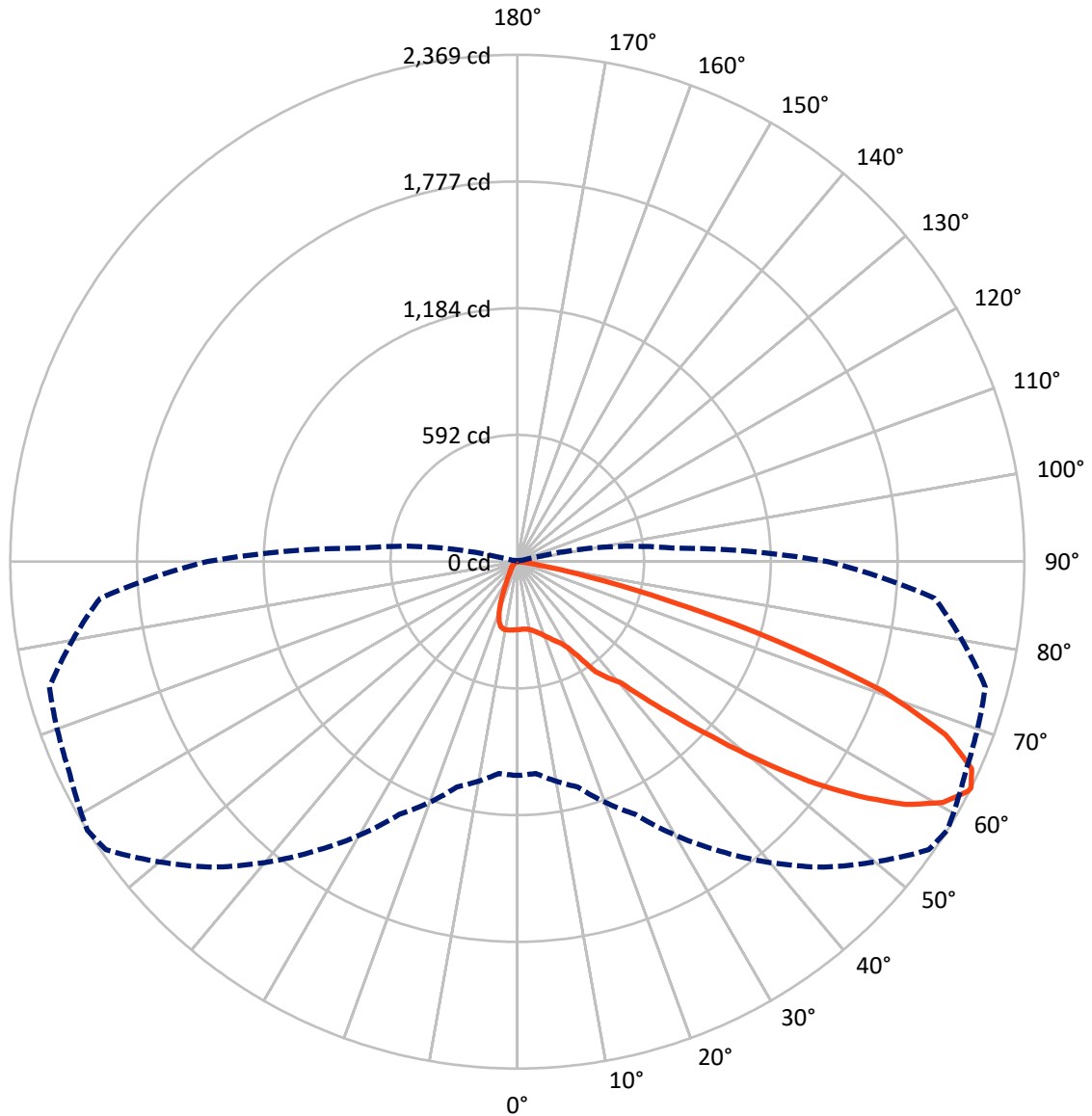
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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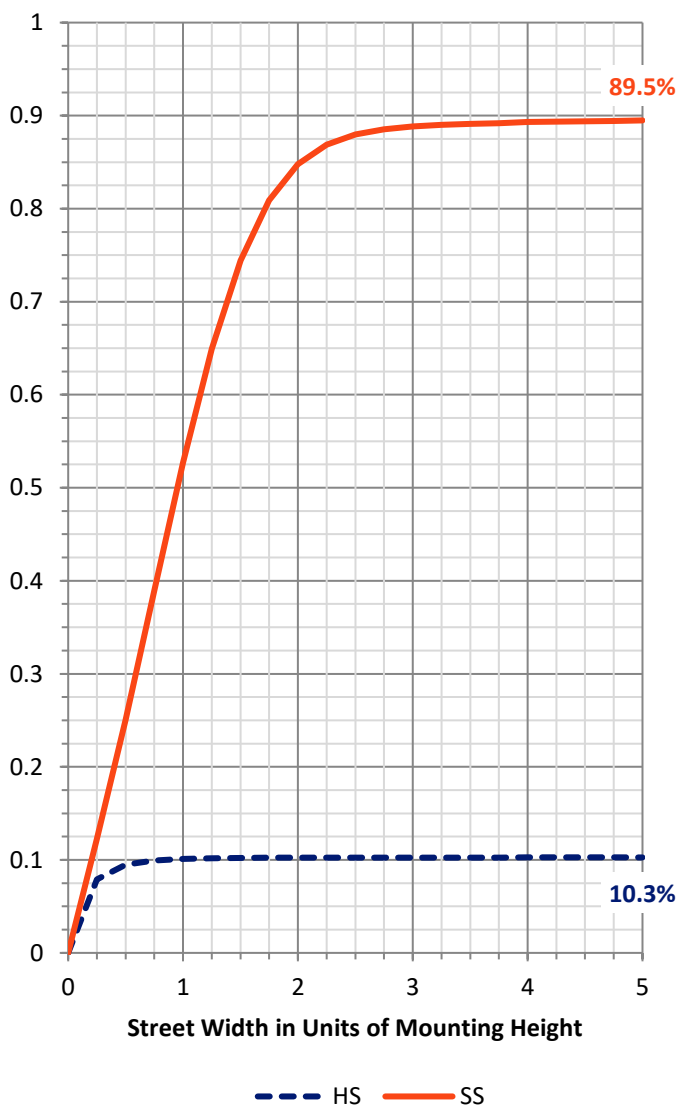
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	294.2	0.0	294.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	2546.8	0.0	2546.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	2841.0	0.0	2841.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	1.0
10°-20°	81.1	2.9
20°-30°	140.7	5.0
30°-40°	258.6	9.1
40°-50°	486.9	17.1
50°-60°	832.8	29.3
60°-70°	797.4	28.1
70°-80°	203.3	7.2
80°-90°	10.4	0.4
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°	2841.0	100.0
0°-180°	2841.0	100.0

**Coefficient of Utilization**



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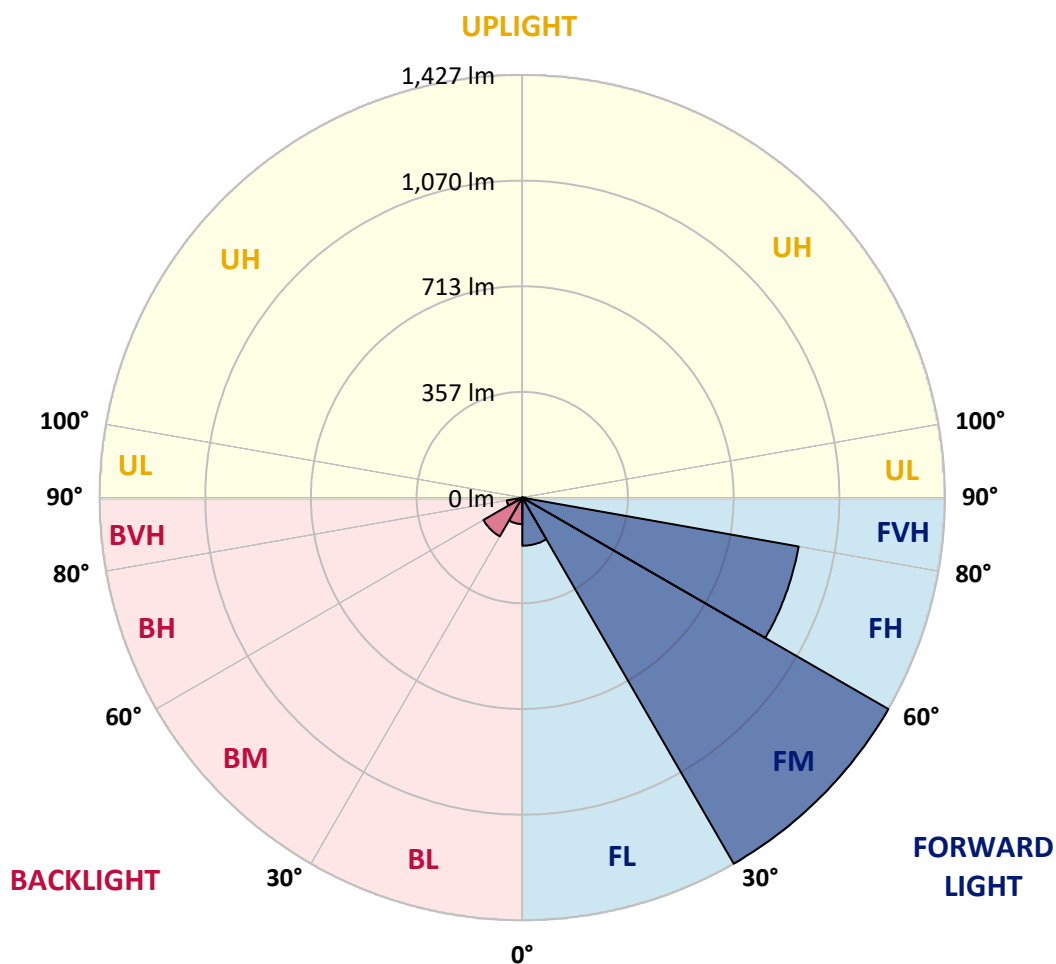
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.4	5.7			
FM (30°-60°)	1427.0	50.2			
FH (60°-80°)	947.5	33.3			G1/1800
FVH (80°-90°)	10.0	0.4			G0/10
BL (0°-30°)	89.2	3.1	B0/110		
BM (30°-60°)	151.3	5.3	B0/220		
BH (60°-80°)	53.2	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	310.1	311.2	312.3	312.7	314.2	315.7	316.8	316.6	318.3	319.1	319.1
5°	297.7	297.7	300.5	303.1	307.4	311.6	315.7	316.6	319.8	322.8	323.8
7.5°	287.3	287.9	290.0	294.7	300.5	308.0	316.1	318.1	323.6	330.3	333.0
10°	282.3	282.8	285.5	290.5	297.7	308.0	319.3	323.0	331.5	342.0	345.9
12.5°	281.3	281.9	284.7	290.3	298.6	311.0	326.4	330.3	342.7	356.1	361.9
15°	283.2	283.6	286.4	292.4	301.6	316.3	335.8	341.2	355.9	371.5	379.0
17.5°	290.0	289.6	291.5	296.5	306.7	323.0	347.2	353.6	370.9	392.3	397.2
20°	319.1	316.3	314.6	310.4	314.4	332.4	360.8	370.3	391.6	413.5	416.9
22.5°	381.8	375.6	363.4	346.7	333.9	345.2	377.3	388.2	415.8	437.2	437.2
25°	461.6	453.7	441.5	405.1	373.7	366.4	395.9	409.6	442.1	463.7	456.7
27.5°	561.5	555.3	531.5	489.2	441.1	403.4	417.5	430.1	465.4	491.5	476.8
30°	642.8	639.8	620.3	582.4	529.4	474.4	457.7	466.1	496.4	526.6	511.4
32.5°	711.4	711.4	691.5	656.2	606.6	557.8	526.0	532.0	561.0	595.9	567.7
35°	786.9	784.4	768.3	734.7	679.1	636.1	623.1	631.2	657.5	683.4	613.9
37.5°	866.3	865.4	848.7	816.2	770.9	716.8	686.2	688.3	701.8	717.6	668.0
40°	952.5	953.8	931.9	911.8	869.1	813.7	755.0	741.6	754.2	798.9	767.9
42.5°	1054.3	1051.3	1041.9	1014.5	980.1	946.9	876.5	871.6	882.7	930.7	897.1
45°	1172.6	1176.8	1160.6	1145.4	1122.3	1094.7	1035.9	1027.3	1039.5	1114.0	1066.3
47.5°	1291.1	1287.0	1297.5	1294.7	1307.1	1286.6	1234.6	1217.1	1246.4	1316.9	1246.8
50°	1381.3	1385.8	1407.6	1439.5	1492.8	1504.3	1454.5	1448.5	1461.5	1506.9	1408.3
52.5°	1439.9	1454.9	1489.1	1571.1	1667.1	1741.7	1703.9	1700.7	1695.3	1707.5	1562.7
55°	1478.2	1493.4	1538.1	1658.8	1824.1	1945.4	1947.3	1933.6	1898.3	1889.5	1707.1
57.5°	1454.7	1457.7	1521.4	1682.7	1911.1	2090.6	2153.5	2139.8	2074.6	2041.4	1834.6
60°	1307.5	1313.7	1402.5	1592.0	1873.3	2138.1	2290.2	2284.0	2212.5	2175.1	1933.8
62.5°	1046.8	1064.8	1156.1	1367.4	1697.3	2058.1	2345.6	2363.1	2307.5	2255.9	1965.0
63°	998.9	993.1	1089.6	1302.0	1650.6	2018.5	2346.4	2368.7	2311.8	2263.6	1956.5
65°	739.4	756.8	819.4	1026.7	1373.6	1834.4	2293.6	2332.9	2295.9	2229.6	1861.7
67.5°	415.2	414.3	483.6	671.8	961.5	1438.9	2073.9	2157.1	2149.4	2000.8	1543.2
70°	203.2	206.4	234.9	348.2	557.6	992.7	1723.3	1813.2	1816.0	1571.5	1067.1
72.5°	92.0	93.5	113.8	169.6	286.6	528.5	1187.5	1273.3	1257.5	1001.5	589.3
75°	48.6	51.8	62.7	85.3	138.2	218.0	646.0	729.0	695.8	457.5	216.9
77.5°	35.9	37.0	42.6	54.3	74.0	84.9	278.7	331.5	310.6	165.6	71.9
80°	26.3	27.2	31.7	38.5	46.6	43.2	105.0	120.4	108.0	56.3	22.0
82.5°	16.0	16.3	23.1	28.7	29.3	24.2	34.7	37.2	38.9	31.7	12.0
85°	5.8	7.3	15.6	20.7	17.3	12.2	14.5	16.0	17.5	20.1	7.1
87.5°	0.6	0.9	7.5	10.1	4.9	4.5	5.3	6.0	6.4	7.5	3.4
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°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	320.0	320.8	320.2	319.1	318.9	318.3	317.0	317.0	317.0	317.4	317.0
5°	324.7	325.3	323.8	321.7	319.3	316.3	313.1	311.2	311.0	310.6	309.5
7.5°	333.7	334.5	331.1	326.0	319.6	312.3	305.4	299.0	296.0	293.7	293.7
10°	346.7	347.6	340.7	331.5	318.7	303.9	287.7	272.9	261.4	256.0	254.7
12.5°	362.3	362.8	351.4	335.4	314.2	285.8	251.1	218.8	196.4	186.1	185.0
15°	379.4	376.5	361.5	336.9	301.4	248.3	188.4	148.9	125.6	118.7	121.3
17.5°	396.8	391.2	369.2	334.5	272.5	188.4	126.6	101.6	94.3	92.4	92.4
20°	413.0	405.3	374.7	324.3	222.5	129.8	93.9	87.9	86.6	85.3	85.6
22.5°	429.3	417.5	379.7	301.4	165.8	92.8	84.1	82.1	80.4	78.7	78.5
25°	445.1	428.9	381.6	259.0	112.9	79.8	76.8	74.2	70.8	68.9	68.4
27.5°	461.6	442.5	380.3	205.6	82.3	71.4	68.4	64.8	60.7	57.3	57.3
30°	493.2	468.6	375.8	147.8	69.3	62.9	59.0	53.3	48.8	45.3	45.1
32.5°	536.4	502.7	360.4	104.0	61.6	55.4	49.6	43.2	38.5	35.9	35.9
35°	574.9	536.9	331.5	76.6	55.4	48.1	41.1	34.9	31.2	29.5	28.9
37.5°	633.6	586.9	291.8	62.2	49.4	41.7	34.4	28.7	25.7	24.4	24.4
40°	721.5	648.1	243.0	54.5	43.6	35.5	28.7	24.2	21.8	20.3	20.3
42.5°	830.6	723.0	193.6	49.0	38.3	30.6	24.0	20.5	18.4	17.3	17.1
45°	967.9	801.9	149.1	43.8	34.0	26.1	20.3	17.3	15.2	14.5	14.8
47.5°	1111.2	871.4	115.5	39.4	29.5	22.0	17.3	15.0	13.5	12.6	12.6
50°	1233.5	919.3	87.7	34.2	26.1	18.6	15.2	13.5	12.2	11.8	11.6
52.5°	1335.8	933.2	67.2	29.7	22.9	16.0	13.5	12.2	11.1	10.5	10.5
55°	1422.8	921.0	52.6	25.0	19.3	13.9	12.0	10.9	9.6	9.0	8.8
57.5°	1473.7	881.9	40.2	20.7	15.6	11.6	10.5	9.2	7.7	6.6	6.6
60°	1499.4	825.0	30.8	17.1	12.0	9.2	8.6	6.8	5.3	4.5	4.3
62.5°	1468.6	749.5	23.3	13.5	9.0	6.8	5.8	4.9	3.4	2.6	2.6
63°	1449.6	727.7	22.5	12.8	8.3	6.4	5.3	4.5	3.0	2.4	2.1
65°	1321.4	632.5	18.4	10.3	6.6	4.5	3.6	3.2	2.1	1.1	0.9
67.5°	1049.4	483.8	14.5	7.7	4.7	3.2	2.1	1.9	0.6	0.0	0.0
70°	709.5	312.5	11.3	5.6	3.2	1.9	1.1	0.9	0.2	0.0	0.0
72.5°	370.0	160.2	8.8	4.1	1.9	1.3	0.6	0.2	0.0	0.0	0.0
75°	130.9	54.5	6.4	2.6	1.3	0.6	0.2	0.0	0.0	0.0	0.0
77.5°	39.6	20.3	4.1	1.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0
80°	13.9	7.5	2.4	1.3	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.8	3.6	1.5	1.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0
85°	3.9	2.4	1.3	1.1	0.6	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.7	1.3	1.1	0.9	0.4	0.2	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)