

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: P450432

Luminaire Tested: **GLAN-SA1B-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3961 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

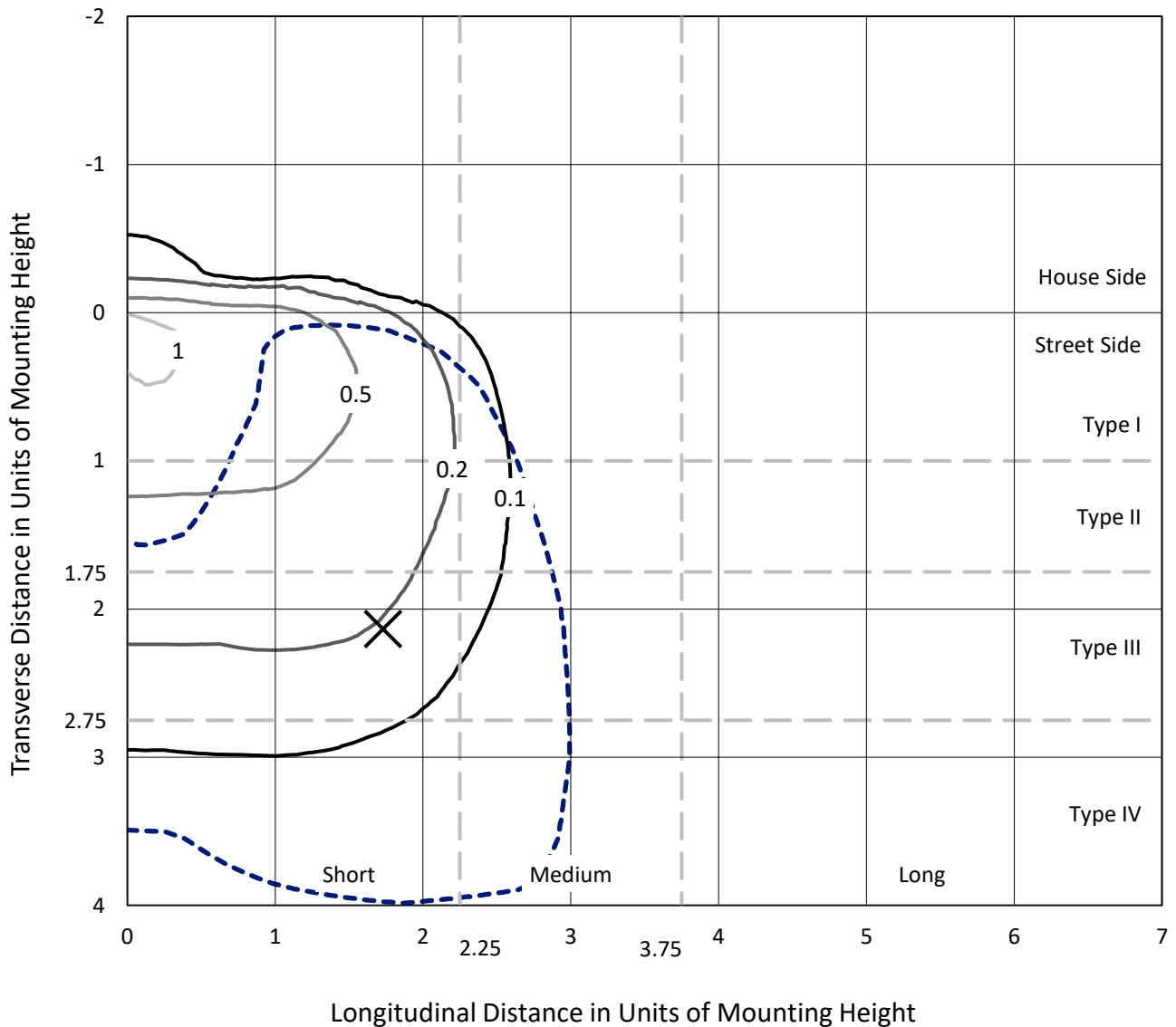
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

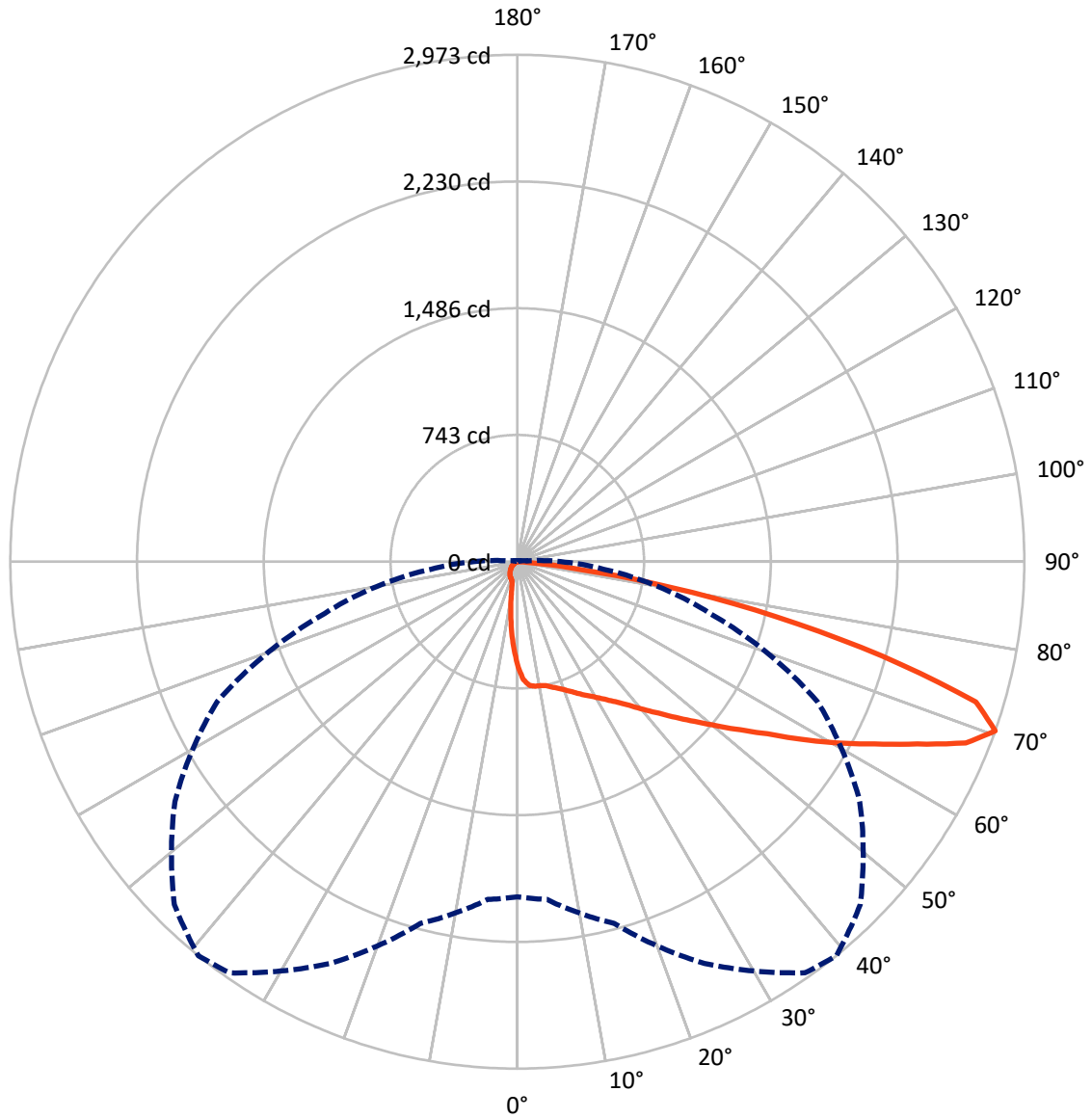
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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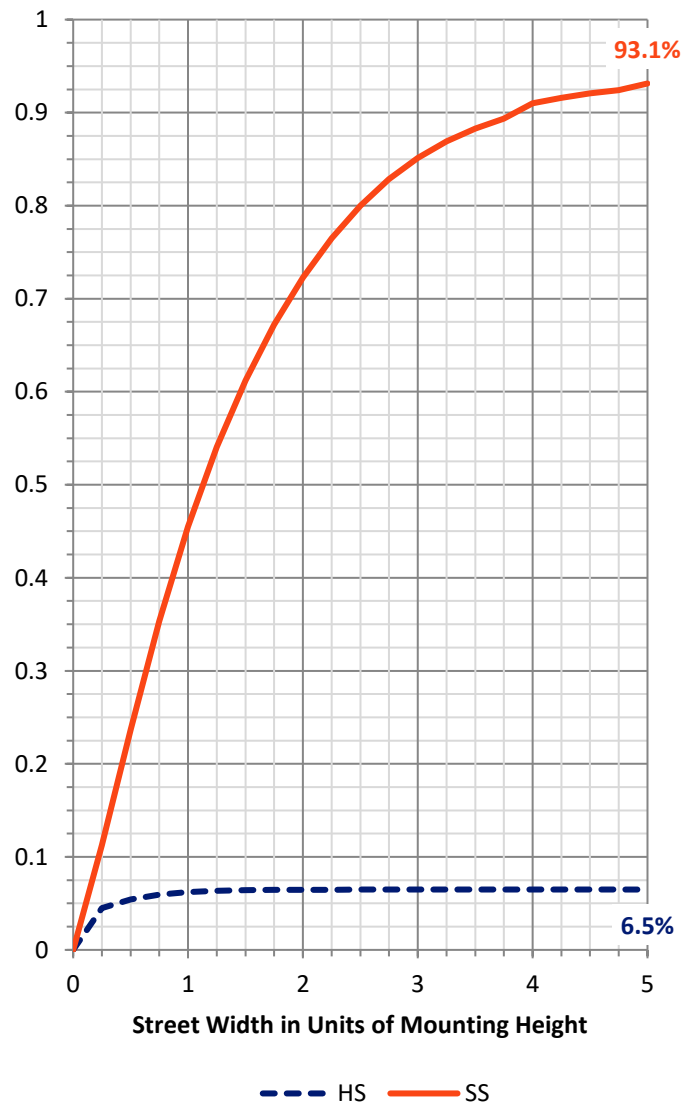
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	258.3	0.0	258.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	3702.7	0.0	3702.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	3961.0	0.0	3961.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.3
10°-20°	137.0	3.5
20°-30°	229.5	5.8
30°-40°	355.9	9.0
40°-50°	564.0	14.2
50°-60°	826.8	20.9
60°-70°	1059.7	26.8
70°-80°	665.9	16.8
80°-90°	69.4	1.8
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°	3961.0	100.0
0°-180°	3961.0	100.0



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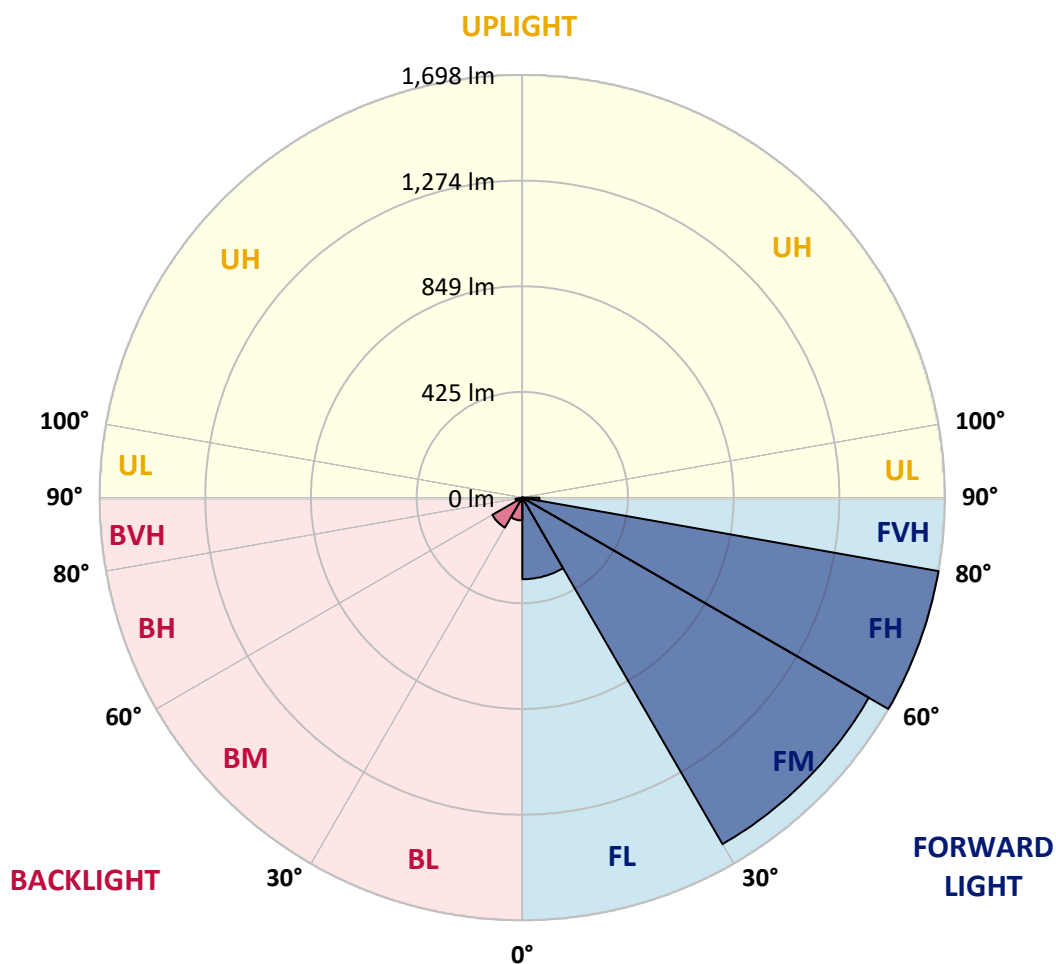
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.8	8.3			
FM (30°-60°)	1607.8	40.6			
FH (60°-80°)	1698.3	42.9			G1/1800
FVH (80°-90°)	68.9	1.7			G1/100
BL (0°-30°)	91.5	2.3	B0/110		
BM (30°-60°)	139.0	3.5	B0/220		
BH (60°-80°)	27.3	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
2.5°	714.1	711.7	708.6	704.8	694.2	692.3	685.9	672.4	656.1	642.8	624.4
5°	747.9	749.3	746.9	740.2	732.5	728.0	720.0	699.0	677.9	651.1	621.0
7.5°	755.7	758.3	755.4	749.0	741.6	736.8	730.4	712.3	687.8	657.2	615.9
10°	754.9	758.1	756.2	750.3	744.2	739.7	732.8	718.4	698.7	666.5	617.5
12.5°	753.5	757.8	757.5	754.6	749.5	746.1	741.8	729.0	710.7	680.1	626.3
15°	749.8	755.1	759.9	762.3	762.6	762.6	757.3	743.7	726.1	697.9	637.7
17.5°	751.4	757.5	769.5	776.4	781.2	780.7	775.1	760.5	741.0	716.3	649.7
20°	761.3	769.5	786.3	800.1	804.9	803.3	795.9	778.8	756.7	732.0	661.4
22.5°	785.5	792.9	814.0	830.2	833.7	829.4	818.7	795.6	775.6	749.0	675.5
25°	821.7	830.5	849.9	862.1	862.1	859.7	844.8	817.7	796.9	772.7	693.9
27.5°	865.6	873.0	892.2	903.1	896.7	889.8	874.9	842.2	822.2	802.5	716.0
30°	910.0	914.8	935.1	939.9	933.2	924.4	908.4	875.7	858.1	843.0	747.9
32.5°	952.1	962.5	979.2	978.2	969.1	964.9	950.2	915.4	905.5	903.9	792.7
35°	994.2	1002.1	1017.0	1020.8	1012.8	1012.0	1001.3	975.5	975.8	986.2	862.4
37.5°	1030.4	1037.5	1055.1	1063.4	1065.0	1068.9	1064.7	1047.7	1071.9	1100.4	954.8
40°	1060.7	1070.8	1093.2	1107.5	1124.0	1138.7	1139.5	1143.2	1191.9	1240.9	1075.3
42.5°	1084.4	1098.5	1131.0	1157.6	1195.4	1214.0	1228.9	1249.4	1331.4	1404.6	1217.5
45°	1115.3	1131.5	1172.0	1213.7	1272.8	1303.4	1324.2	1379.0	1495.4	1595.2	1363.3
47.5°	1166.4	1174.9	1216.1	1277.1	1354.8	1398.5	1438.9	1522.0	1671.3	1760.7	1484.7
50°	1232.1	1237.7	1268.8	1353.5	1454.1	1511.6	1585.3	1683.0	1853.9	1898.1	1553.4
52.5°	1304.8	1306.6	1330.1	1437.6	1565.4	1637.8	1720.3	1840.8	2002.7	1996.0	1598.9
55°	1389.2	1386.5	1406.5	1528.9	1697.1	1779.9	1876.0	2002.4	2131.8	2065.5	1625.0
57.5°	1485.8	1478.6	1498.0	1650.0	1865.9	1964.9	2062.6	2141.9	2231.9	2123.8	1637.5
60°	1586.9	1572.5	1595.7	1786.0	2064.7	2158.7	2239.8	2261.1	2337.3	2170.1	1615.9
62.5°	1667.6	1667.8	1711.0	1930.8	2269.1	2351.4	2394.5	2413.6	2428.0	2160.0	1502.5
65°	1793.5	1797.7	1866.7	2131.8	2505.7	2577.1	2606.6	2544.3	2432.0	2034.4	1332.2
67.5°	1923.4	1936.9	2063.1	2408.6	2779.1	2836.6	2798.5	2569.6	2323.4	1747.7	1010.1
70°	1965.7	1988.0	2195.9	2599.2	2943.1	2972.9	2844.1	2451.7	1942.3	1168.5	508.4
72.5°	1801.2	1837.4	2119.5	2529.7	2838.5	2812.6	2544.6	2056.2	1234.8	443.7	155.2
75°	1270.2	1286.1	1761.5	2098.5	2283.0	2209.8	1935.6	1325.5	507.9	124.6	53.2
77.5°	655.8	648.1	1047.7	1392.3	1628.2	1552.3	1267.5	686.2	192.4	51.9	33.0
80°	339.1	344.7	453.3	729.6	993.9	914.6	675.8	318.1	102.5	28.7	25.3
82.5°	190.0	178.3	260.6	318.6	464.7	364.4	259.3	225.2	44.7	17.3	24.0
85°	34.6	36.2	142.9	172.2	161.3	102.5	83.6	150.4	13.0	9.6	16.8
87.5°	0.5	0.5	27.7	49.5	31.4	14.4	26.4	21.6	2.7	3.7	2.9
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°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
2.5°	615.1	605.0	586.1	567.5	543.8	524.4	511.3	497.7	483.9	485.0	488.2
5°	604.5	586.9	549.6	510.3	472.5	438.4	404.8	374.8	362.5	351.3	351.9
7.5°	593.8	569.1	514.5	452.8	395.5	337.5	295.5	260.8	242.5	228.6	224.6
10°	589.0	556.3	482.3	397.4	316.2	252.9	198.8	170.6	148.8	141.9	143.7
12.5°	591.2	549.9	453.3	347.4	250.7	176.2	138.4	124.0	119.2	118.4	117.9
15°	595.2	545.4	424.8	292.0	184.2	131.0	116.3	113.7	113.1	112.6	112.9
17.5°	600.5	541.4	394.5	240.1	141.3	114.5	110.2	108.9	108.6	108.6	108.6
20°	605.8	536.9	360.7	193.8	117.9	108.1	105.4	104.6	104.3	104.3	104.1
22.5°	611.9	532.9	326.3	152.3	108.6	103.5	101.1	100.6	100.3	100.1	100.1
25°	620.7	527.8	289.9	124.6	102.7	99.3	96.9	96.4	96.1	95.0	95.3
27.5°	632.4	524.1	252.3	107.5	97.4	94.0	92.4	91.6	91.0	90.2	90.5
30°	648.4	520.9	212.4	98.2	91.3	88.4	86.8	86.2	85.7	84.9	84.9
32.5°	676.1	522.2	170.4	90.8	85.7	82.2	80.7	80.1	79.6	78.8	78.8
35°	717.6	529.9	136.3	84.4	79.1	75.6	74.0	74.0	73.2	72.1	71.9
37.5°	785.5	549.6	109.4	78.3	72.7	69.5	67.6	67.1	66.3	64.7	64.4
40°	865.6	580.3	92.1	72.1	66.8	63.6	62.0	60.4	58.3	56.7	56.4
42.5°	966.2	611.7	79.9	66.0	61.2	58.3	56.4	53.8	50.6	48.4	48.2
45°	1071.1	640.4	71.6	60.4	55.9	53.5	51.4	47.1	43.1	40.5	40.2
47.5°	1149.3	645.7	64.9	55.1	51.4	49.0	46.0	40.7	35.4	33.0	32.2
50°	1186.3	619.9	58.0	49.8	46.8	44.2	40.5	34.3	28.5	25.6	25.0
52.5°	1199.4	575.2	52.4	45.0	42.3	39.1	34.6	27.7	22.4	19.4	19.2
55°	1194.0	518.8	47.4	40.5	37.0	33.3	28.7	22.1	16.5	14.1	13.6
57.5°	1166.1	446.9	42.3	35.9	31.7	27.9	22.9	16.5	11.2	9.0	8.8
60°	1090.8	349.0	37.3	30.9	26.9	22.9	18.1	11.7	6.9	5.1	5.1
62.5°	963.5	259.0	32.5	25.8	22.6	18.4	12.8	7.5	3.7	2.7	2.4
65°	805.2	191.1	27.1	21.8	18.9	14.4	9.0	4.5	1.9	0.8	0.5
67.5°	561.9	117.9	22.6	17.8	15.4	10.4	5.6	1.9	0.8	0.0	0.0
70°	255.3	56.2	17.3	13.6	11.7	7.5	2.9	1.1	0.5	0.0	0.0
72.5°	79.3	29.5	12.2	9.8	8.0	4.8	1.6	0.8	0.5	0.0	0.0
75°	36.7	18.9	7.7	5.3	4.5	2.4	1.1	0.5	0.3	0.0	0.0
77.5°	27.4	14.6	4.5	2.9	2.4	1.6	0.8	0.5	0.3	0.0	0.0
80°	24.0	7.5	2.7	1.9	1.3	1.1	0.5	0.3	0.0	0.0	0.0
82.5°	21.6	3.7	1.6	1.1	0.8	0.5	0.3	0.3	0.0	0.0	0.0
85°	11.7	2.1	1.1	0.8	0.5	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	0.8	0.5	0.5	0.3	0.3	0.3	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)