

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: P322275

Luminaire Tested: **GAN-SA1B-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA 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: 4361 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

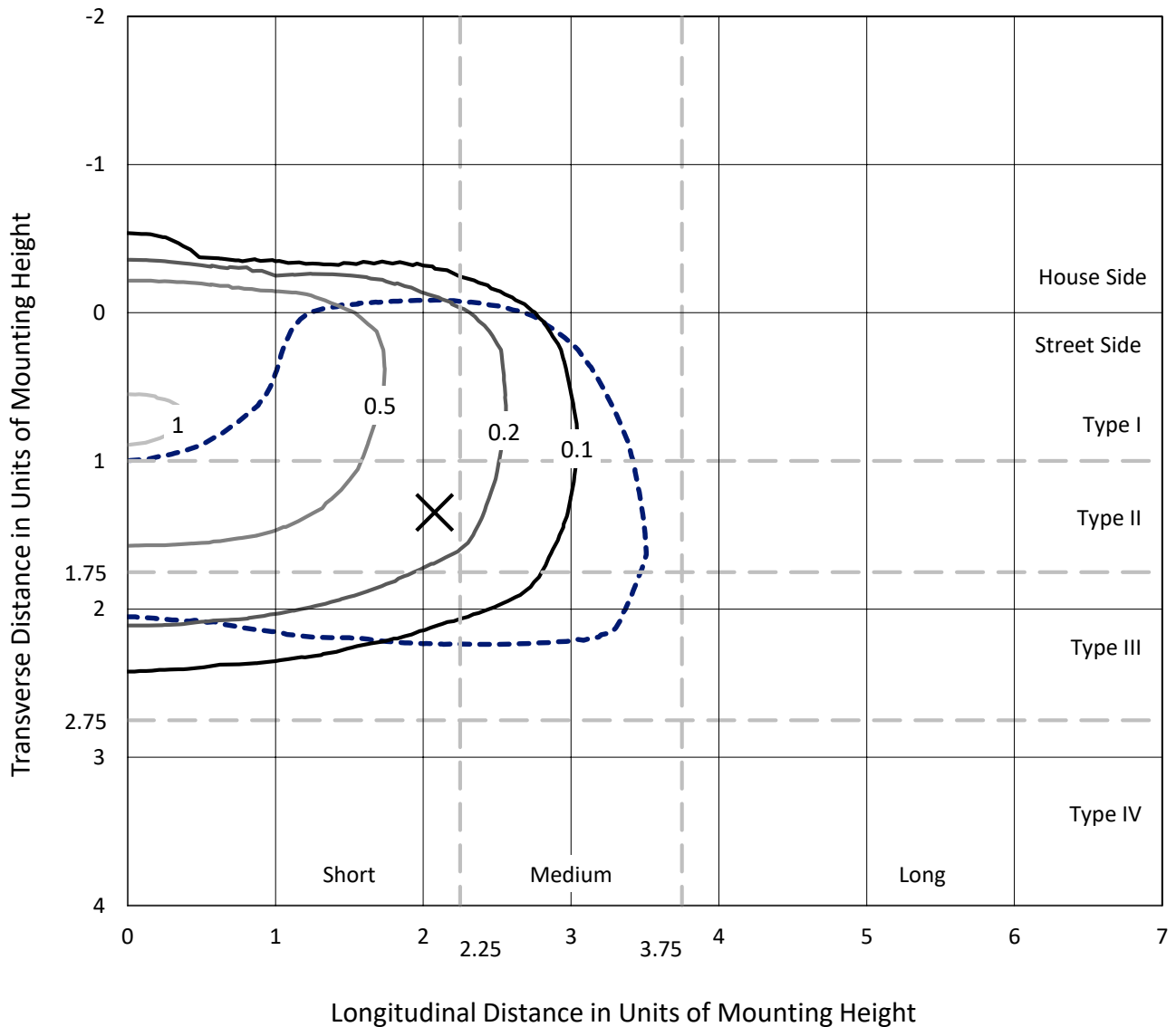
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

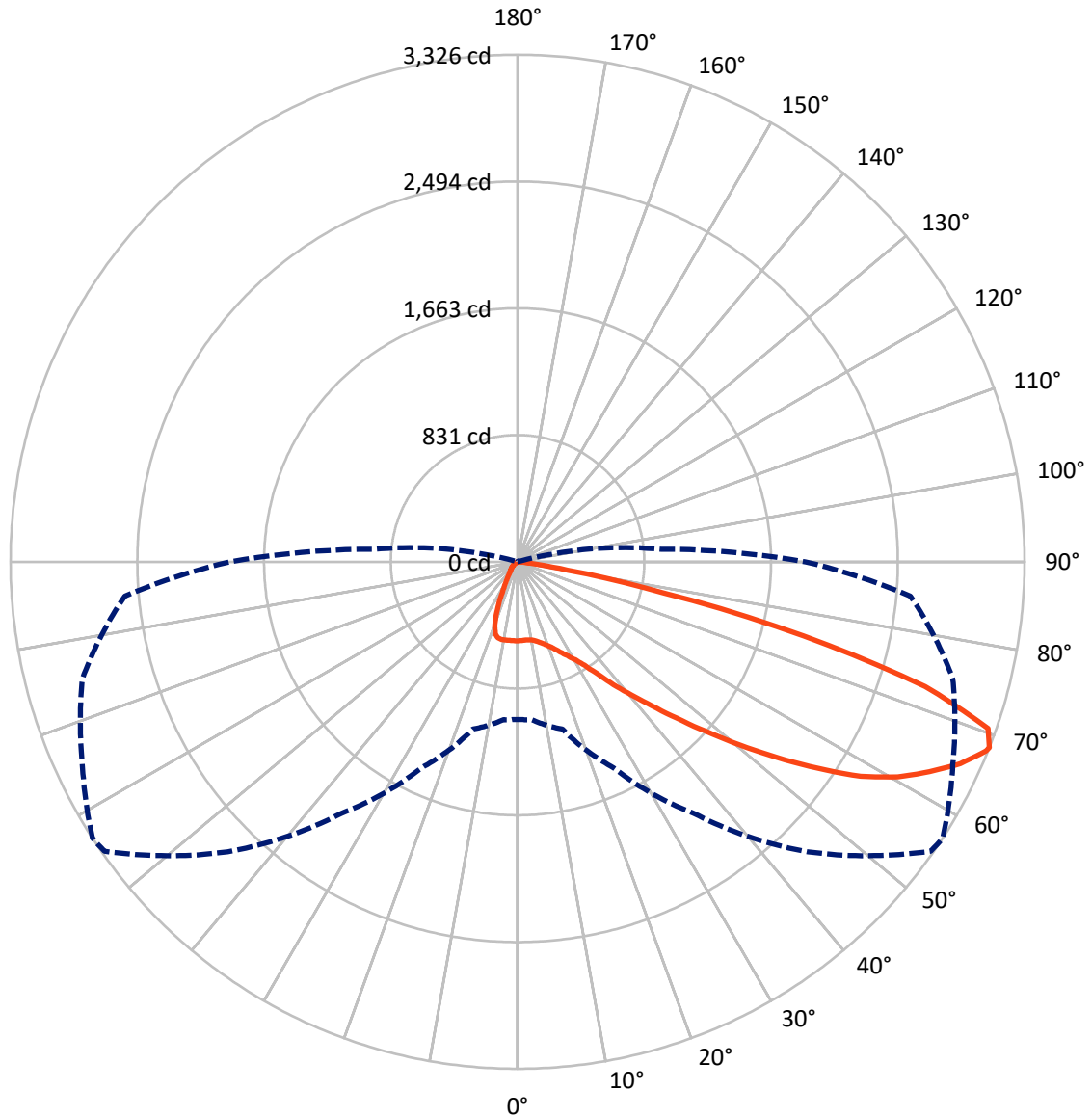
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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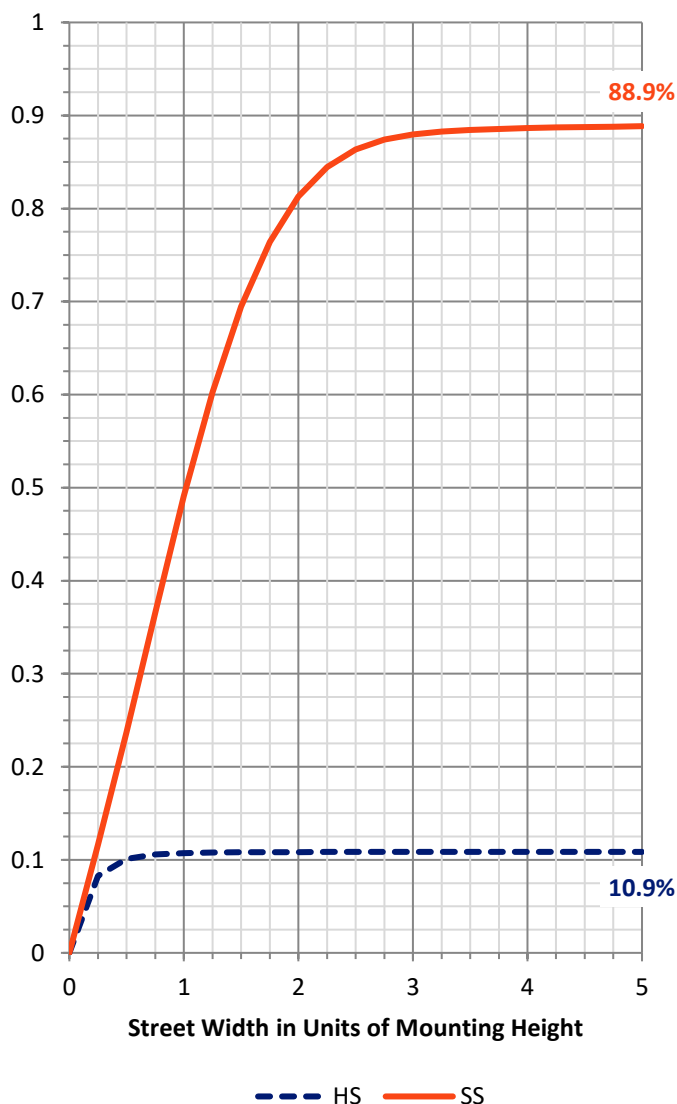
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.2	0.0	478.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	3882.8	0.0	3882.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	4361.0	0.0	4361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.1
10°-20°	134.4	3.1
20°-30°	231.8	5.3
30°-40°	400.1	9.2
40°-50°	684.4	15.7
50°-60°	1095.0	25.1
60°-70°	1265.2	29.0
70°-80°	483.4	11.1
80°-90°	18.1	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°	4361.0	100.0
0°-180°	4361.0	100.0

Coefficient of Utilization



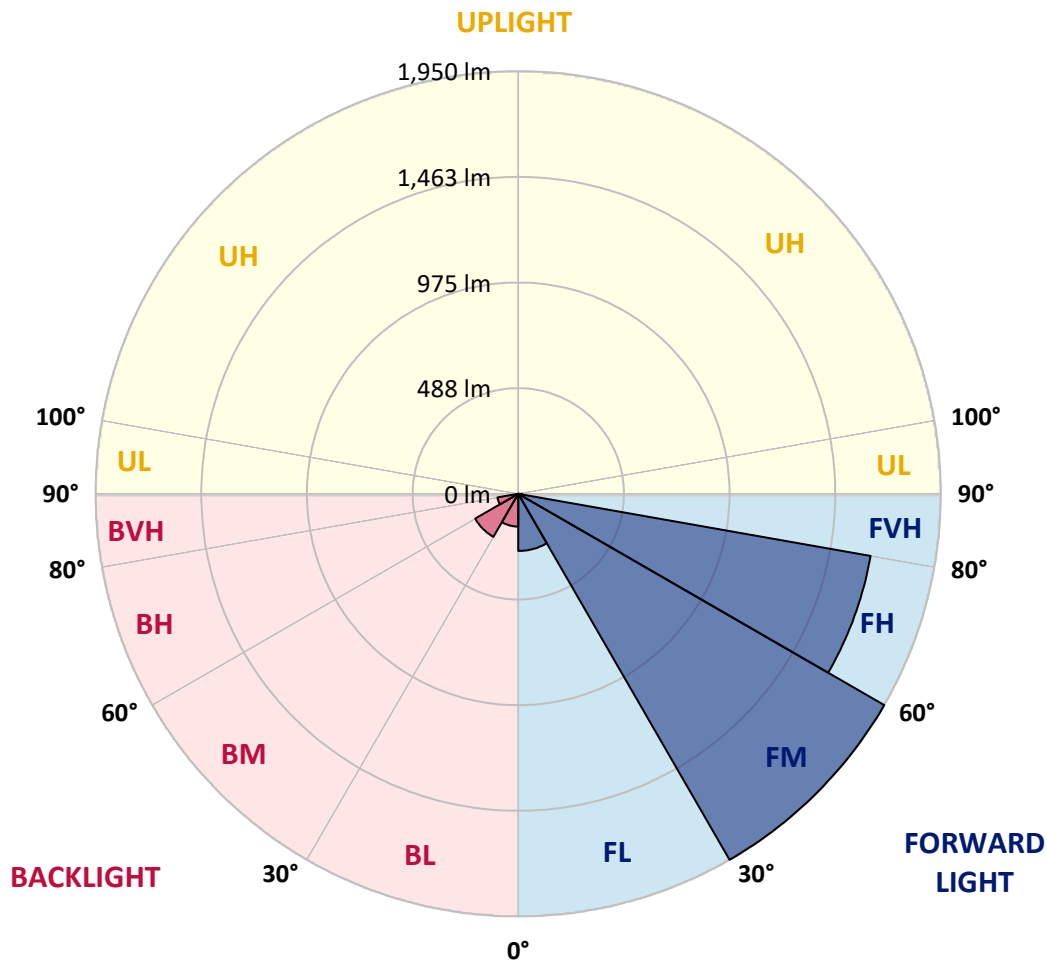
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.6	6.0			
FM (30°-60°)	1950.2	44.7			
FH (60°-80°)	1651.2	37.9			G1/1800
FVH (80°-90°)	17.8	0.4			G1/100
BL (0°-30°)	151.1	3.5	B1/500		
BM (30°-60°)	229.4	5.3	B1/1000		
BH (60°-80°)	97.4	2.2	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2
2.5°	506.0	508.3	510.0	511.0	512.2	514.9	515.7	517.0	517.6	517.6	519.0
5°	486.0	488.5	492.0	494.9	500.7	508.1	513.5	515.5	519.2	522.5	524.4
7.5°	467.5	470.4	474.5	481.3	491.2	503.1	514.3	517.2	524.4	531.4	534.9
10°	455.5	457.8	463.1	472.8	485.8	502.5	518.2	521.7	534.1	545.8	552.4
12.5°	451.4	453.5	459.0	469.9	486.0	505.6	527.3	532.4	550.6	567.7	577.0
15°	457.4	457.8	463.8	474.1	490.0	513.3	542.3	548.5	571.4	593.7	605.2
17.5°	480.5	478.6	481.7	486.2	498.8	523.4	558.2	567.5	598.0	624.2	635.1
20°	538.2	538.2	531.2	518.8	519.0	539.0	579.7	590.2	627.5	657.8	667.7
22.5°	637.0	635.1	621.1	590.8	562.9	566.0	605.8	619.5	663.0	695.3	698.6
25°	755.8	753.5	731.8	689.1	640.9	609.8	641.3	657.0	705.2	733.9	727.1
27.5°	881.5	879.7	858.2	805.2	736.6	679.5	683.6	698.4	748.3	776.6	754.9
30°	1003.4	1004.0	982.8	928.4	850.6	768.3	737.2	745.9	790.2	818.9	787.9
32.5°	1119.3	1120.1	1101.8	1040.9	968.4	871.6	811.4	809.2	838.9	867.1	831.6
35°	1222.6	1224.7	1212.1	1164.9	1088.0	986.7	907.7	902.4	907.9	939.9	898.7
37.5°	1322.2	1323.4	1314.0	1274.2	1209.8	1113.1	1029.4	1021.8	1009.8	1034.3	987.1
40°	1431.3	1428.2	1417.3	1381.2	1325.9	1252.7	1160.1	1146.9	1126.1	1148.0	1103.4
42.5°	1532.7	1529.2	1531.1	1490.3	1443.7	1396.2	1312.5	1289.8	1277.7	1302.8	1246.1
45°	1659.6	1657.7	1663.9	1628.4	1590.7	1556.3	1487.2	1462.4	1457.1	1486.6	1418.7
47.5°	1784.7	1789.3	1808.4	1793.4	1778.1	1747.8	1672.1	1661.0	1664.3	1700.0	1600.8
50°	1889.1	1894.4	1947.0	1964.3	1986.4	1968.7	1892.8	1886.0	1899.0	1931.1	1796.7
52.5°	1964.5	1975.5	2040.8	2120.6	2201.1	2213.0	2137.4	2131.2	2148.7	2153.6	1948.1
55°	2016.9	2026.6	2100.6	2246.6	2410.4	2461.9	2414.9	2391.0	2387.7	2338.8	2107.2
57.5°	2026.2	2025.2	2131.6	2328.1	2574.5	2707.5	2677.8	2654.3	2586.7	2510.0	2289.7
60°	1973.8	1979.8	2103.3	2356.3	2677.6	2893.3	2895.6	2865.1	2759.7	2676.4	2466.7
62.5°	1812.6	1836.9	1961.7	2282.3	2676.4	2968.2	3055.2	3031.9	2905.9	2812.7	2646.1
65°	1551.1	1559.8	1678.7	2028.7	2495.5	2936.8	3198.9	3190.3	3037.7	2945.1	2738.2
67.5°	1132.7	1113.9	1238.9	1597.5	2112.8	2754.1	3302.0	3312.9	3139.3	2972.3	2640.1
68°	1033.7	1039.3	1136.6	1490.9	2012.6	2689.6	3308.8	3325.5	3149.4	2954.6	2586.5
70°	616.2	626.9	713.7	1026.5	1531.1	2324.4	3235.4	3273.6	3089.2	2771.6	2237.2
72.5°	157.3	170.1	252.2	459.4	874.5	1637.7	2731.2	2795.8	2682.2	2248.5	1510.3
75°	64.7	68.0	90.1	151.4	325.8	737.8	1800.2	1938.4	1859.4	1346.1	682.5
77.5°	44.7	47.0	57.9	83.9	141.0	250.1	882.6	982.4	885.0	459.4	148.9
80°	32.2	34.0	41.4	55.9	81.0	89.3	287.7	332.6	264.2	100.8	36.9
82.5°	19.2	20.6	30.9	39.8	49.3	42.7	71.6	81.2	76.5	50.1	16.5
85°	9.5	11.1	20.8	28.5	26.6	17.9	21.9	24.3	30.1	30.5	8.9
87.5°	0.6	1.2	12.2	17.1	7.4	4.1	6.4	7.8	10.7	15.1	3.7
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°	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2
2.5°	519.6	519.9	518.4	517.8	518.2	515.7	514.7	515.1	515.1	515.7	514.7
5°	524.8	524.8	522.3	519.0	517.2	512.4	509.3	508.5	507.9	507.5	506.7
7.5°	535.9	534.7	530.4	523.2	517.0	506.7	498.8	494.7	492.6	491.8	491.2
10°	553.9	551.6	544.4	531.0	516.8	498.4	481.3	469.1	459.0	454.9	452.4
12.5°	578.0	574.7	562.5	540.3	515.3	481.5	444.4	408.7	375.5	361.9	355.1
15°	605.8	601.1	581.9	548.1	506.9	443.3	362.7	300.2	254.3	236.9	229.5
17.5°	634.1	627.9	598.8	553.1	481.5	364.4	254.5	192.2	161.5	153.2	150.3
20°	662.5	653.5	613.5	549.3	424.2	262.7	167.9	140.4	131.6	129.1	128.3
22.5°	689.6	675.5	626.7	534.9	335.9	176.3	132.8	124.1	121.3	119.8	119.4
25°	713.1	693.5	638.2	490.4	237.8	133.2	119.6	116.7	113.0	110.3	110.5
27.5°	735.1	711.4	645.2	417.0	158.6	113.8	110.7	106.8	100.0	96.1	96.1
30°	761.7	735.3	650.4	320.9	116.7	100.6	98.2	92.2	82.9	77.7	77.7
32.5°	801.7	771.6	647.1	225.2	96.7	88.5	82.7	74.4	64.3	59.4	59.2
35°	863.0	827.7	623.6	147.6	85.4	76.9	67.6	57.5	48.7	44.5	44.3
37.5°	945.5	902.8	570.8	105.6	76.5	66.2	55.1	43.9	37.3	34.6	34.4
40°	1052.5	990.0	495.3	85.6	68.3	55.9	42.5	34.0	29.5	27.4	27.6
42.5°	1181.0	1083.4	404.8	73.8	60.2	46.0	33.2	26.8	23.9	22.5	22.1
45°	1323.7	1175.6	309.9	65.8	52.2	37.1	26.0	21.2	19.0	18.1	18.1
47.5°	1480.6	1265.3	226.8	58.8	43.5	28.7	20.8	17.3	15.5	14.8	14.6
50°	1623.1	1327.6	163.5	51.3	35.7	22.7	16.9	14.4	13.2	12.4	12.4
52.5°	1741.8	1347.2	120.4	43.3	28.9	18.1	14.0	12.4	11.1	10.5	10.5
55°	1846.4	1339.1	89.5	35.7	23.3	14.8	12.0	10.5	9.5	8.9	8.9
57.5°	1946.6	1313.1	66.8	29.1	18.8	12.0	10.1	8.9	7.8	7.4	7.4
60°	2028.5	1269.8	49.7	23.5	15.1	9.7	8.5	7.2	6.4	5.8	5.8
62.5°	2094.9	1222.0	36.5	19.4	12.0	7.6	6.6	6.0	4.7	4.1	4.1
65°	2095.3	1142.6	27.4	16.1	9.3	6.0	4.9	4.7	3.1	2.5	2.3
67.5°	1943.7	985.1	21.0	13.8	7.2	4.5	3.7	3.9	1.6	1.0	0.8
68°	1888.7	945.1	19.8	13.6	6.8	4.3	3.5	3.9	1.4	0.8	0.6
70°	1592.3	751.8	15.9	13.2	6.0	3.3	2.9	3.9	1.2	0.6	0.4
72.5°	1018.5	436.3	11.8	10.5	4.5	2.5	1.9	3.5	1.2	0.4	0.2
75°	433.5	135.3	8.0	7.4	2.7	1.9	1.2	2.3	0.8	0.2	0.0
77.5°	91.4	30.5	4.7	4.5	1.9	1.2	0.8	0.6	0.2	0.0	0.0
80°	23.5	8.9	2.5	2.3	1.0	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	7.4	3.5	1.4	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.6	0.2	0.0	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)