

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: P322225

Luminaire Tested: **GAN-SA1A-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322225
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-SA1A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 3556 lumens
Efficiency: N/A
Efficacy: 104.6 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

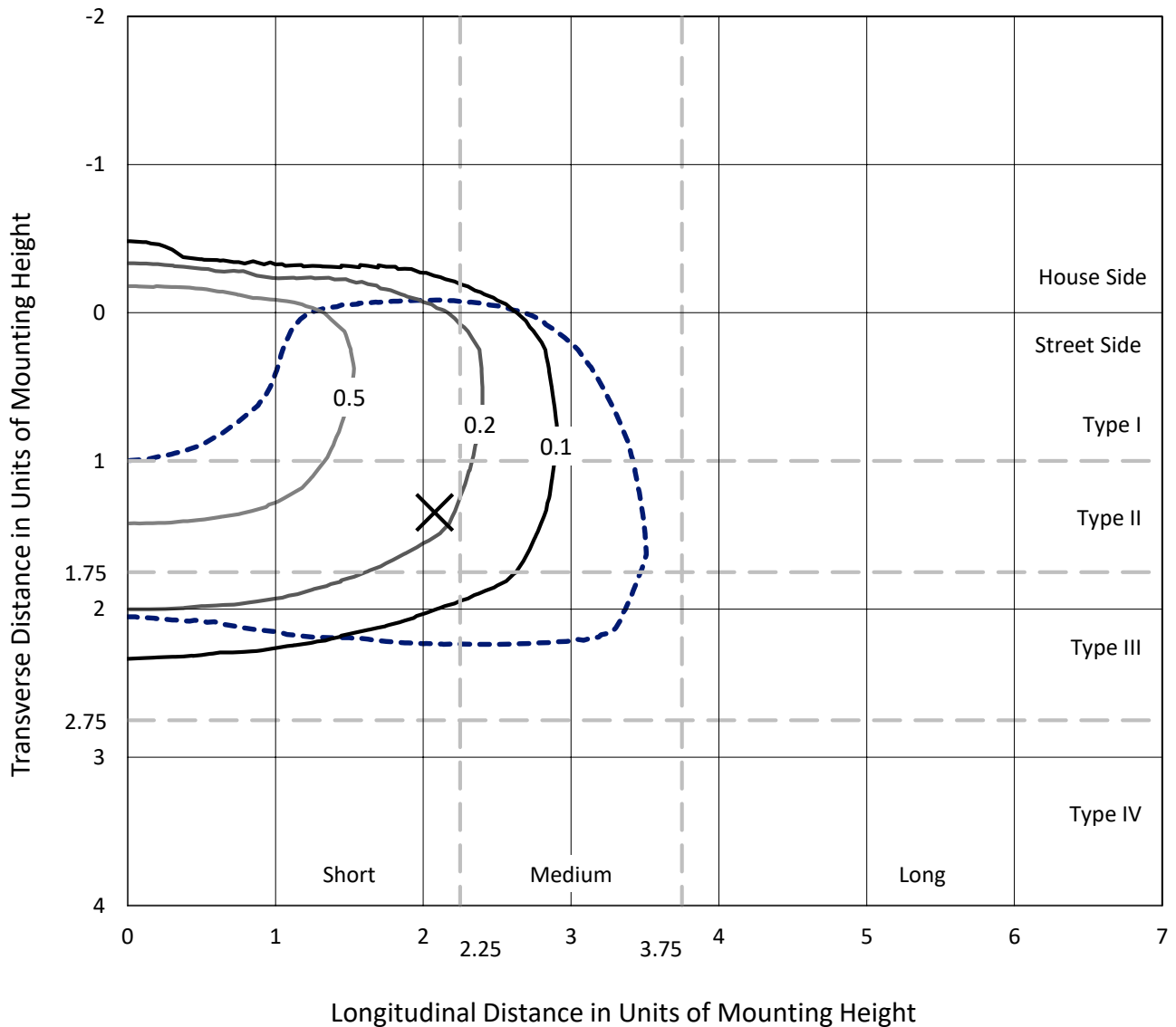
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

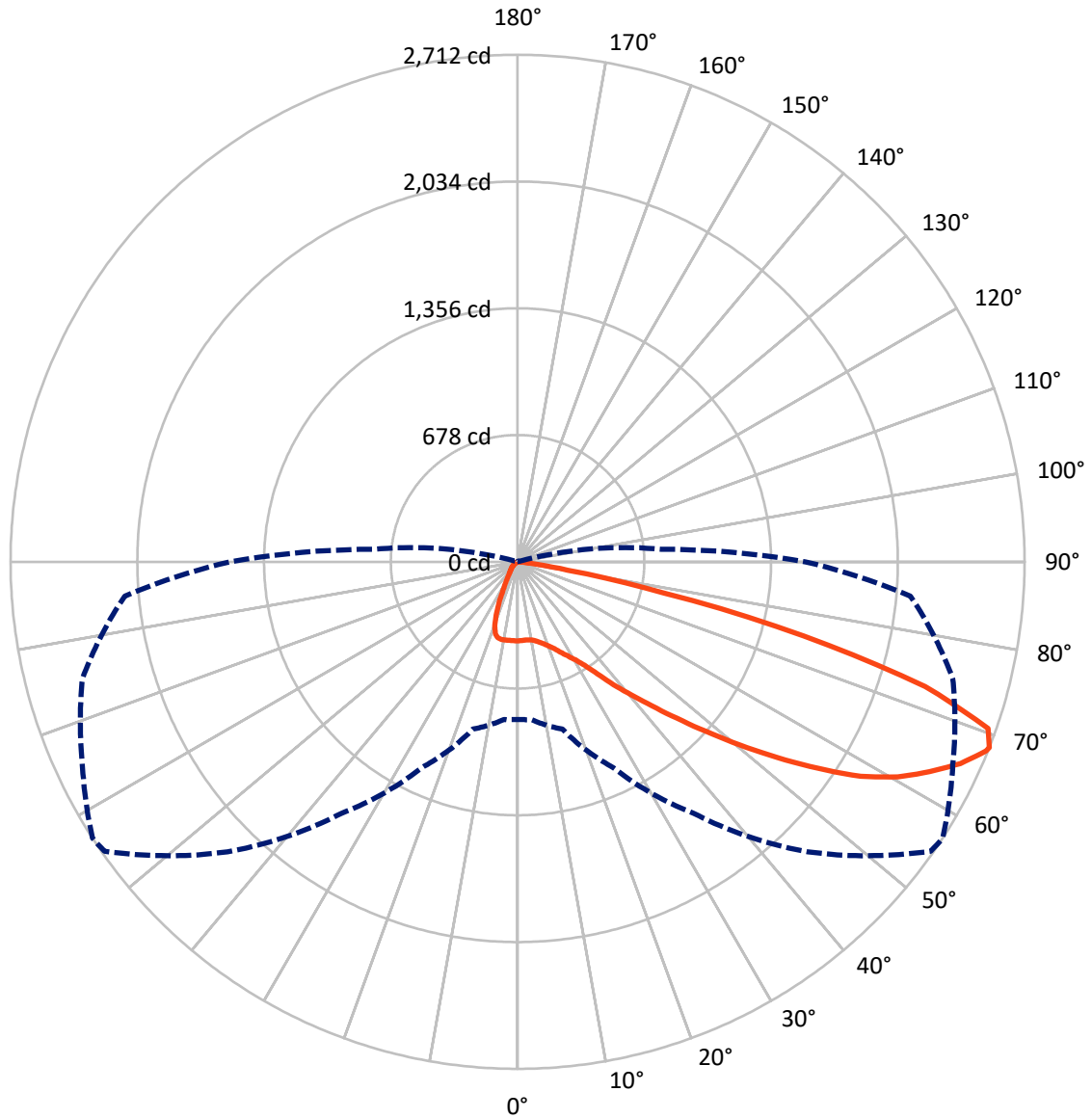
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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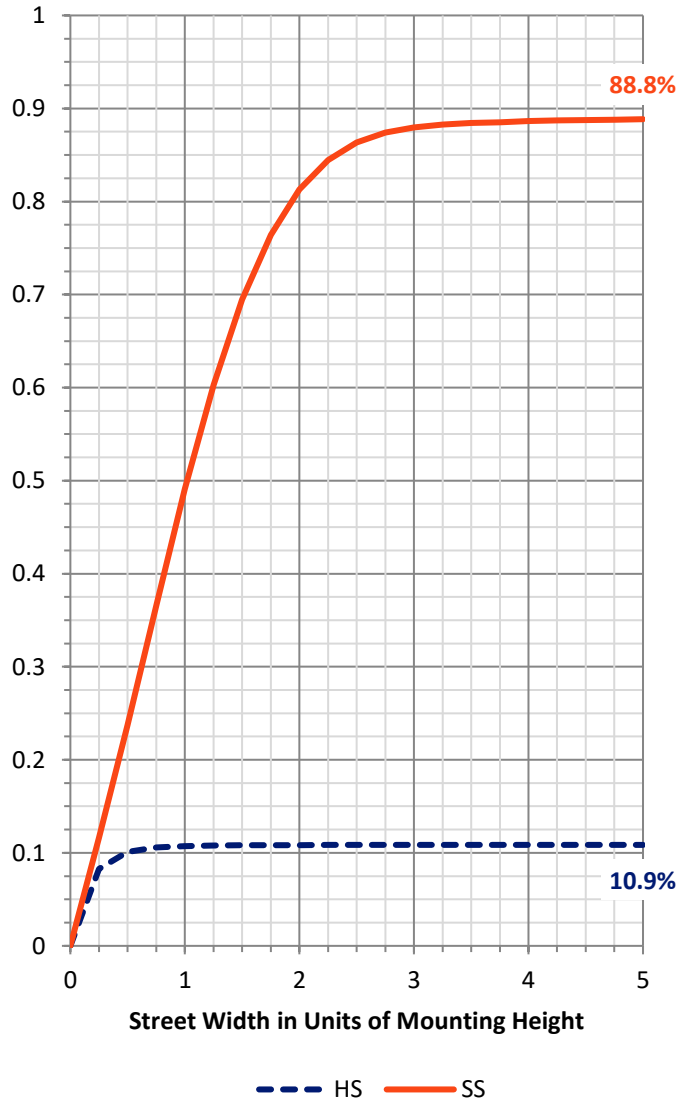
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	389.9	0.0	389.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	3166.1	0.0	3166.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	3556.0	0.0	3556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.1
10°-20°	109.6	3.1
20°-30°	189.0	5.3
30°-40°	326.3	9.2
40°-50°	558.1	15.7
50°-60°	892.9	25.1
60°-70°	1031.6	29.0
70°-80°	394.2	11.1
80°-90°	14.8	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°	3556.0	100.0
0°-180°	3556.0	100.0

Coefficient of Utilization

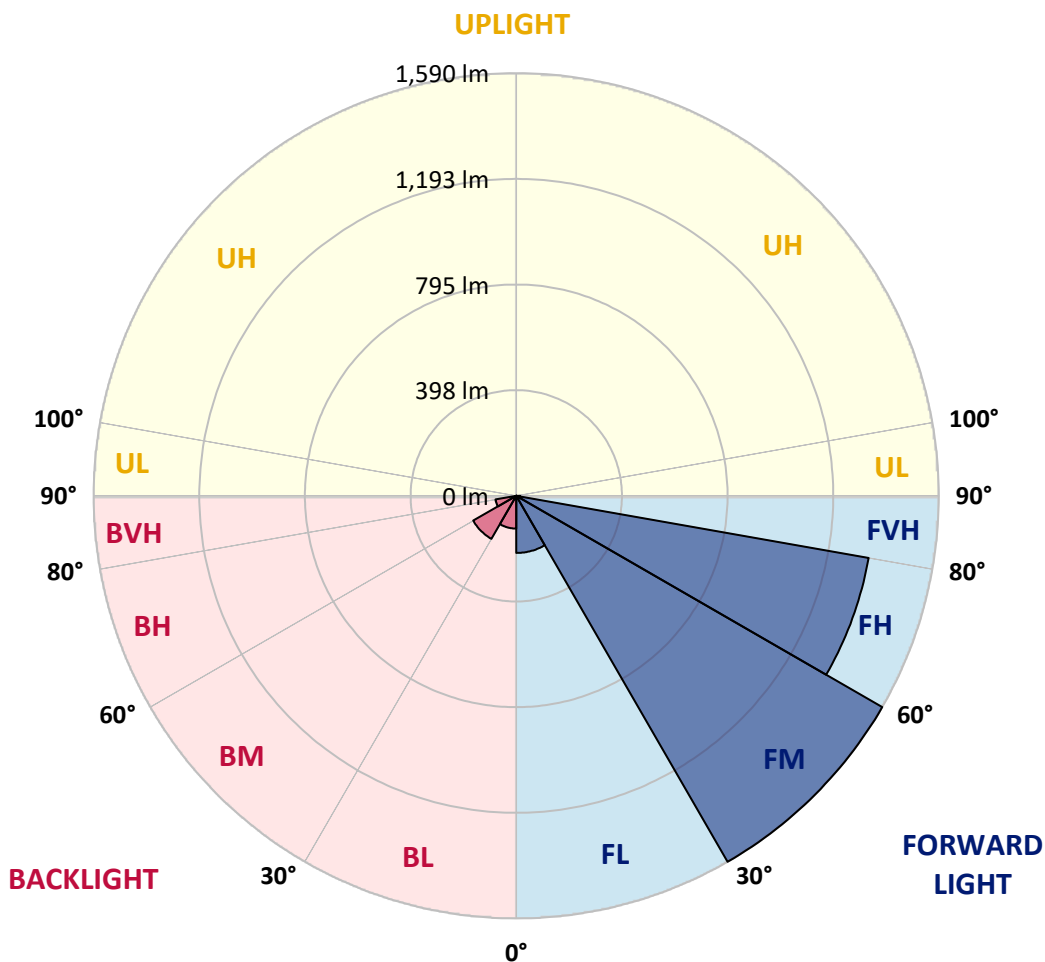


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.9	6.0			
FM (30°-60°)	1590.2	44.7			
FH (60°-80°)	1346.4	37.9			G1/1800
FVH (80°-90°)	14.5	0.4			G1/100
BL (0°-30°)	123.2	3.5	B1/500		
BM (30°-60°)	187.0	5.3	B0/220		
BH (60°-80°)	79.4	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°	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5
2.5°	412.6	414.5	415.8	416.7	417.7	419.9	420.5	421.5	422.0	422.0	423.2
5°	396.3	398.3	401.2	403.5	408.3	414.3	418.7	420.4	423.4	426.1	427.6
7.5°	381.2	383.5	386.9	392.4	400.5	410.3	419.4	421.7	427.6	433.3	436.2
10°	371.4	373.3	377.7	385.6	396.1	409.8	422.5	425.4	435.5	445.1	450.5
12.5°	368.1	369.7	374.3	383.2	396.3	412.3	429.9	434.1	448.9	462.9	470.5
15°	372.9	373.3	378.2	386.6	399.5	418.5	442.2	447.3	465.9	484.1	493.5
17.5°	391.8	390.3	392.8	396.5	406.7	426.8	455.2	462.7	487.6	509.0	517.9
20°	438.9	438.9	433.1	423.1	423.2	439.5	472.7	481.2	511.7	536.4	544.5
22.5°	519.4	517.9	506.5	481.7	459.0	461.6	494.0	505.1	540.6	567.0	569.7
25°	616.2	614.4	596.7	561.9	522.6	497.2	522.9	535.7	575.1	598.4	592.9
27.5°	718.8	717.3	699.8	656.6	600.6	554.0	557.4	569.5	610.2	633.2	615.6
30°	818.2	818.7	801.4	757.0	693.6	626.5	601.1	608.2	644.3	667.7	642.5
32.5°	912.7	913.4	898.4	848.8	789.6	710.7	661.6	659.8	684.0	707.0	678.1
35°	996.9	998.6	988.4	949.8	887.1	804.6	740.2	735.8	740.3	766.4	732.8
37.5°	1078.1	1079.1	1071.4	1039.0	986.5	907.6	839.4	833.2	823.4	843.4	804.9
40°	1167.1	1164.6	1155.7	1126.2	1081.2	1021.5	946.0	935.2	918.2	936.1	899.7
42.5°	1249.8	1247.0	1248.5	1215.2	1177.2	1138.5	1070.2	1051.7	1041.8	1062.3	1016.1
45°	1353.2	1351.7	1356.8	1327.8	1297.1	1269.0	1212.7	1192.5	1188.1	1212.2	1156.8
47.5°	1455.3	1459.0	1474.6	1462.4	1449.9	1425.2	1363.5	1354.4	1357.1	1386.2	1305.3
50°	1540.4	1544.7	1587.6	1601.7	1619.7	1605.3	1543.4	1537.8	1548.4	1574.7	1465.0
52.5°	1601.9	1610.8	1664.1	1729.2	1794.8	1804.5	1742.8	1737.8	1752.1	1756.1	1588.5
55°	1644.6	1652.5	1712.9	1831.9	1965.4	2007.5	1969.1	1949.6	1946.9	1907.1	1718.3
57.5°	1652.2	1651.3	1738.1	1898.3	2099.3	2207.7	2183.5	2164.4	2109.2	2046.7	1867.1
60°	1609.5	1614.4	1715.1	1921.4	2183.4	2359.2	2361.1	2336.2	2250.3	2182.3	2011.3
62.5°	1478.0	1497.8	1599.6	1861.0	2182.3	2420.3	2491.2	2472.2	2369.5	2293.5	2157.6
65°	1264.8	1271.8	1368.9	1654.2	2034.9	2394.7	2608.4	2601.4	2476.9	2401.4	2232.8
67.5°	923.6	908.3	1010.2	1302.6	1722.8	2245.7	2692.5	2701.4	2559.8	2423.6	2152.8
68°	842.9	847.4	926.8	1215.7	1641.1	2193.1	2698.0	2711.7	2568.1	2409.2	2109.0
70°	502.4	511.2	581.9	837.0	1248.5	1895.3	2638.2	2669.3	2519.0	2260.0	1824.2
72.5°	128.3	138.7	205.6	374.6	713.1	1335.4	2227.1	2279.7	2187.1	1833.4	1231.5
75°	52.8	55.5	73.5	123.4	265.7	601.6	1467.9	1580.6	1516.2	1097.6	556.6
77.5°	36.5	38.3	47.2	68.4	115.0	204.0	719.7	801.0	721.7	374.6	121.4
80°	26.2	27.7	33.8	45.6	66.1	72.8	234.6	271.2	215.4	82.2	30.1
82.5°	15.6	16.8	25.2	32.5	40.2	34.8	58.3	66.2	62.4	40.9	13.5
85°	7.7	9.1	17.0	23.2	21.7	14.6	17.8	19.8	24.5	24.9	7.2
87.5°	0.5	1.0	9.9	14.0	6.1	3.4	5.2	6.4	8.7	12.3	3.0
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°	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5
2.5°	423.7	423.9	422.7	422.2	422.5	420.5	419.7	420.0	420.0	420.5	419.7
5°	427.9	427.9	425.9	423.2	421.7	417.8	415.3	414.6	414.1	413.8	413.1
7.5°	437.0	436.0	432.5	426.6	421.5	413.1	406.7	403.4	401.7	401.0	400.5
10°	451.6	449.8	443.9	433.0	421.4	406.4	392.4	382.5	374.3	370.9	368.9
12.5°	471.3	468.6	458.7	440.5	420.2	392.6	362.4	333.3	306.2	295.1	289.5
15°	494.0	490.1	474.5	446.9	413.3	361.5	295.8	244.8	207.3	193.2	187.1
17.5°	517.0	512.0	488.3	451.0	392.6	297.1	207.5	156.7	131.7	124.9	122.6
20°	540.2	532.8	500.2	447.9	345.9	214.2	136.9	114.5	107.3	105.3	104.6
22.5°	562.3	550.8	511.0	436.2	273.9	143.8	108.3	101.2	98.9	97.7	97.4
25°	581.4	565.5	520.4	399.8	193.9	108.6	97.5	95.2	92.1	90.0	90.1
27.5°	599.4	580.1	526.1	340.0	129.3	92.8	90.3	87.1	81.5	78.4	78.4
30°	621.1	599.6	530.3	261.6	95.2	82.1	80.0	75.2	67.6	63.4	63.4
32.5°	653.7	629.2	527.6	183.6	78.9	72.1	67.4	60.7	52.5	48.4	48.3
35°	703.7	674.9	508.5	120.4	69.6	62.7	55.2	46.9	39.7	36.3	36.2
37.5°	770.9	736.1	465.4	86.1	62.4	54.0	44.9	35.8	30.4	28.2	28.1
40°	858.2	807.3	403.9	69.8	55.7	45.6	34.6	27.7	24.0	22.4	22.5
42.5°	963.0	883.4	330.1	60.2	49.1	37.5	27.1	21.9	19.5	18.3	18.0
45°	1079.3	958.6	252.7	53.6	42.5	30.3	21.2	17.3	15.5	14.8	14.8
47.5°	1207.3	1031.7	185.0	47.9	35.5	23.4	17.0	14.1	12.6	12.1	11.9
50°	1323.5	1082.5	133.3	41.9	29.1	18.5	13.8	11.8	10.8	10.1	10.1
52.5°	1420.3	1098.5	98.2	35.3	23.5	14.8	11.4	10.1	9.1	8.6	8.6
55°	1505.6	1091.9	73.0	29.1	19.0	12.1	9.8	8.6	7.7	7.2	7.2
57.5°	1587.3	1070.7	54.5	23.7	15.3	9.8	8.2	7.2	6.4	6.1	6.1
60°	1654.0	1035.4	40.5	19.2	12.3	7.9	6.9	5.9	5.2	4.7	4.7
62.5°	1708.2	996.4	29.8	15.8	9.8	6.2	5.4	4.9	3.9	3.4	3.4
65°	1708.5	931.7	22.4	13.1	7.6	4.9	4.0	3.9	2.5	2.0	1.8
67.5°	1584.9	803.2	17.2	11.3	5.9	3.7	3.0	3.2	1.3	0.8	0.7
68°	1540.0	770.6	16.1	11.1	5.5	3.5	2.9	3.2	1.2	0.7	0.5
70°	1298.4	613.1	12.9	10.8	4.9	2.7	2.4	3.2	1.0	0.5	0.3
72.5°	830.5	355.8	9.6	8.6	3.7	2.0	1.5	2.9	1.0	0.3	0.2
75°	353.4	110.3	6.6	6.1	2.2	1.5	1.0	1.8	0.7	0.2	0.0
77.5°	74.5	24.9	3.9	3.7	1.5	1.0	0.7	0.5	0.2	0.0	0.0
80°	19.2	7.2	2.0	1.8	0.8	0.5	0.3	0.0	0.0	0.0	0.0
82.5°	6.1	2.9	1.2	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.5	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)