

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: P193651

Luminaire Tested: **GAN-AF-03-LED-U-SL3-8030-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL3-8030-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8347 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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: 28.75 FT

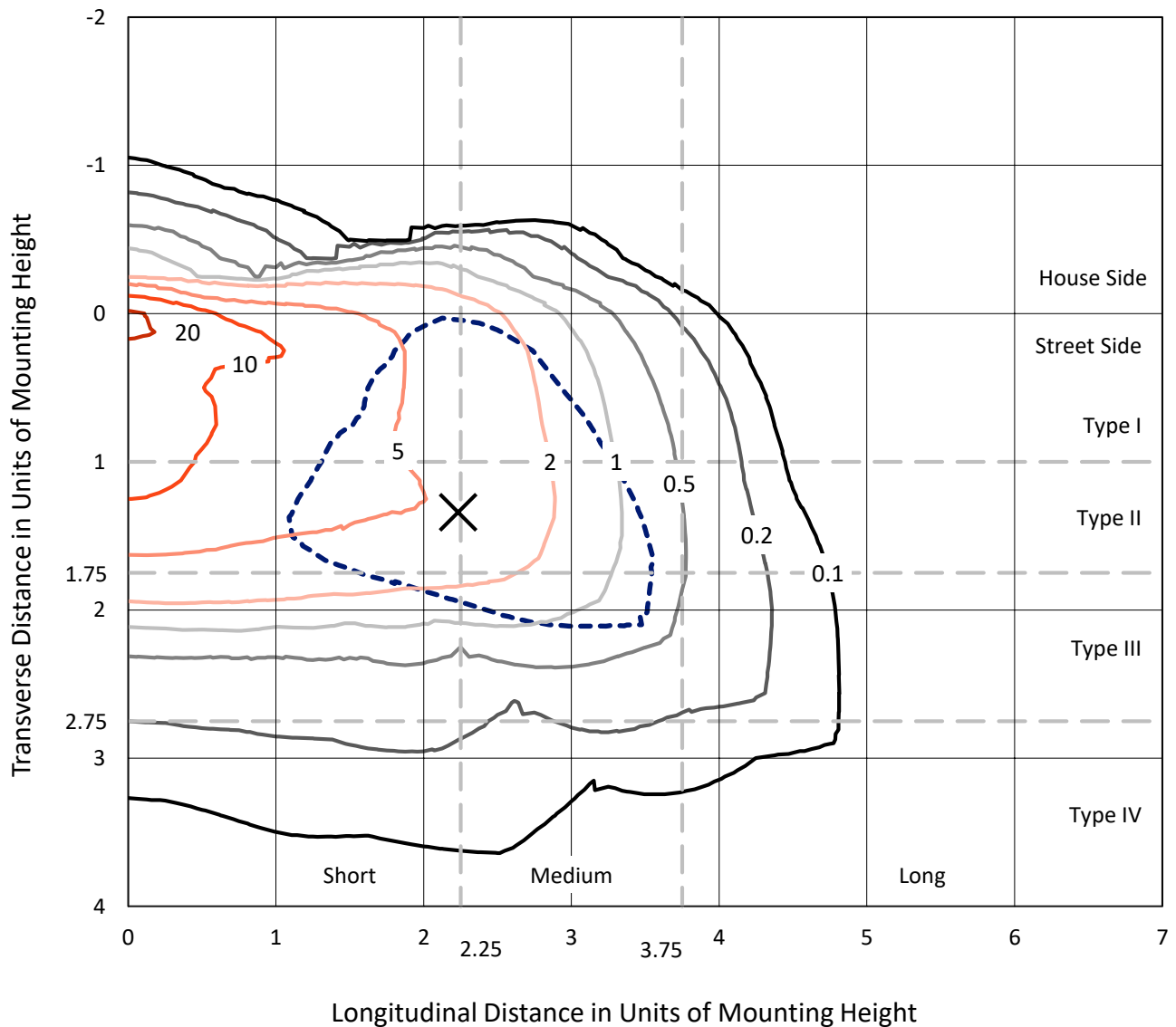


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

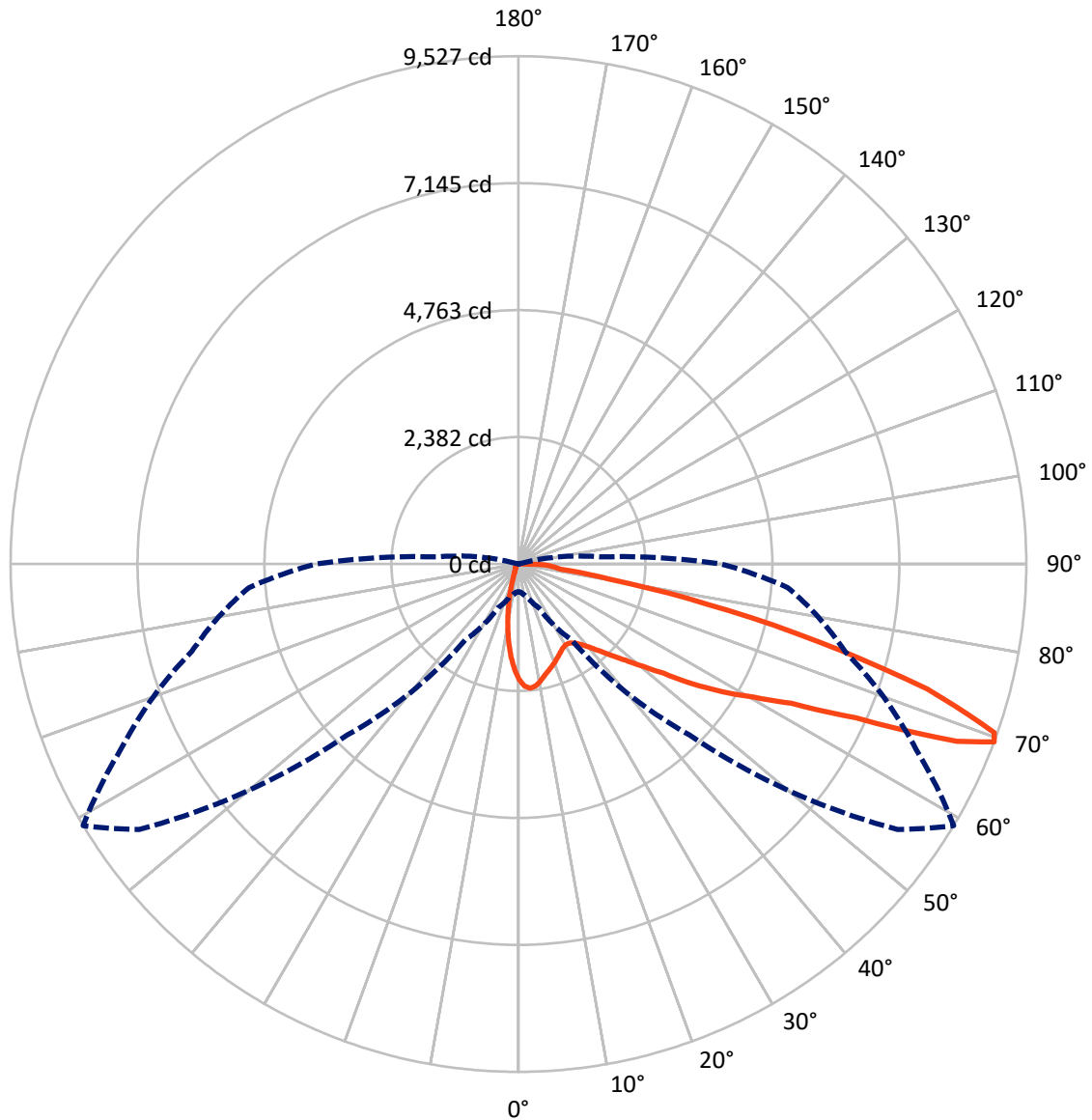


Based on 10 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.7	0.0	679.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7667.3	0.0	7667.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	8347.0	0.0	8347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	2.1
10°-20°	364.4	4.4
20°-30°	490.3	5.9
30°-40°	711.9	8.5
40°-50°	1185.4	14.2
50°-60°	1849.2	22.2
60°-70°	2288.3	27.4
70°-80°	1159.7	13.9
80°-90°	121.3	1.5
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°	8347.0	100.0
0°-180°	8347.0	100.0

Coefficient of Utilization



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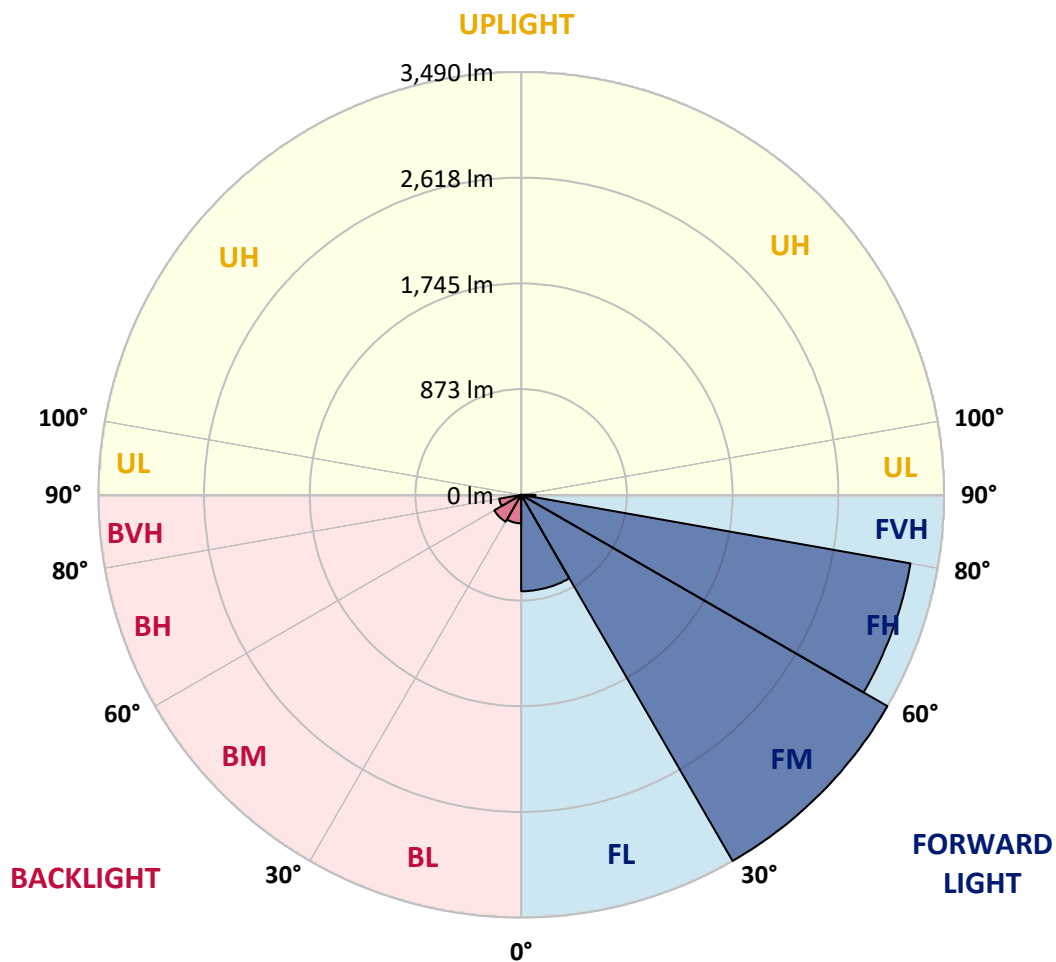
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.8	9.5			
FM	(30°-60°)	3490.5	41.8			
FH	(60°-80°)	3263.4	39.1			G2/5000
FVH	(80°-90°)	117.6	1.4			G2/225
BL	(0°-30°)	235.3	2.8	B1/500		
BM	(30°-60°)	256.1	3.1	B1/1000		
BH	(60°-80°)	184.6	2.2	B1/500		G1/500
BVH	(80°-90°)	3.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6
2.5°	2381.2	2380.3	2369.9	2365.2	2356.7	2338.8	2310.9	2296.3	2272.7	2231.6	2176.4
5°	2359.5	2370.8	2377.0	2377.5	2383.6	2377.0	2352.0	2339.7	2307.1	2241.0	2141.9
7.5°	2212.3	2216.5	2234.0	2249.1	2278.3	2306.2	2315.2	2310.0	2290.6	2219.8	2088.1
10°	2054.6	2058.9	2079.6	2099.4	2139.1	2182.0	2227.4	2236.8	2244.8	2189.6	2036.2
12.5°	1918.7	1922.9	1944.2	1970.1	2016.4	2069.2	2139.6	2155.1	2190.5	2160.8	1994.7
15°	1801.6	1803.5	1824.3	1856.4	1911.6	1979.6	2059.3	2084.3	2138.6	2140.5	1958.3
17.5°	1702.0	1706.7	1719.5	1750.2	1810.6	1894.6	1987.6	2023.5	2087.2	2123.5	1922.9
20°	1641.1	1645.9	1645.4	1662.4	1716.7	1806.3	1915.8	1958.8	2036.2	2106.1	1891.3
22.5°	1629.3	1629.3	1617.1	1614.7	1646.8	1721.9	1841.3	1893.7	1990.4	2098.5	1869.1
25°	1671.3	1669.5	1638.8	1613.8	1615.2	1660.0	1769.1	1831.4	1951.7	2103.7	1857.3
27.5°	1760.1	1757.7	1719.0	1671.3	1633.1	1632.6	1714.3	1781.3	1921.0	2128.2	1862.0
30°	1882.8	1881.9	1839.8	1779.9	1710.5	1646.8	1695.4	1756.3	1901.2	2172.6	1872.9
32.5°	2016.8	2015.4	1983.8	1920.6	1832.8	1710.5	1715.2	1766.2	1906.9	2231.6	1899.3
35°	2158.9	2156.6	2142.9	2087.6	1990.9	1828.0	1780.4	1820.0	1942.7	2319.9	1951.2
37.5°	2312.8	2315.2	2325.1	2272.2	2170.7	1992.8	1889.4	1916.3	2015.0	2439.8	2035.7
40°	2539.8	2539.4	2542.7	2473.3	2375.6	2194.3	2041.9	2050.4	2135.8	2598.8	2164.1
42.5°	2951.9	2923.1	2835.8	2694.2	2596.0	2424.7	2234.0	2225.0	2283.5	2795.6	2343.9
45°	3505.5	3444.2	3217.6	2946.2	2820.7	2684.3	2470.4	2441.6	2478.9	3032.1	2565.8
47.5°	3981.8	3918.1	3597.6	3208.6	3059.0	2930.6	2747.5	2695.6	2707.9	3296.9	2847.1
50°	4143.7	4112.5	3832.6	3437.1	3289.8	3240.7	3068.9	3005.7	2988.2	3603.2	3173.2
52.5°	4087.5	4085.1	3898.7	3585.3	3501.3	3561.7	3473.4	3400.3	3336.1	3926.1	3505.1
55°	3997.4	4009.2	3925.6	3715.1	3712.3	3854.8	4026.6	3965.7	3779.8	4276.8	3791.1
57.5°	3748.6	3799.1	3910.5	3960.5	4076.7	4222.5	4487.3	4523.2	4303.2	4545.3	4028.5
60°	3041.6	3152.5	3516.9	3995.9	4546.3	4909.7	5043.3	5074.0	4732.7	4768.6	4349.0
62.5°	2158.9	2272.2	2734.3	3544.7	4553.4	5812.7	5871.7	5751.3	5205.7	5099.5	4901.7
65°	1146.0	1233.3	1610.9	2558.7	3947.8	6022.2	7320.2	6961.5	6040.2	5750.4	5615.8
67.5°	586.2	612.7	762.7	1252.2	2714.0	5349.2	8618.7	8871.2	7478.3	6396.1	5581.4
69°	518.7	534.3	633.9	905.3	1737.9	4530.7	8681.9	9526.8	8231.2	6342.2	5072.1
70°	502.2	515.9	606.5	819.4	1358.4	3799.6	8439.8	9469.2	8423.8	6137.4	4691.7
72.5°	426.2	438.0	540.0	724.0	1104.0	1886.1	6855.8	8024.0	7559.1	5112.7	3396.0
75°	285.1	323.8	518.3	678.7	1027.1	1071.4	4519.9	5798.5	5386.4	3448.4	1769.1
77.5°	68.4	73.6	146.3	540.0	939.3	943.1	2324.6	3604.7	2940.1	1229.1	418.2
80°	36.8	35.4	41.1	107.1	874.6	885.0	1046.4	1749.7	1049.7	203.9	137.8
82.5°	26.0	24.5	26.4	44.8	275.2	806.2	757.1	792.0	435.2	78.4	61.8
85°	9.4	9.0	14.6	40.6	86.4	463.5	777.9	653.2	352.6	35.9	45.3
87.5°	3.3	2.8	5.7	22.2	26.4	197.3	480.0	493.7	138.8	21.7	21.2
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°	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6	2172.6
2.5°	2153.3	2124.0	2070.2	2015.0	1964.0	1902.6	1871.9	1841.7	1829.0	1824.3	1802.1
5°	2091.0	2041.4	1927.2	1812.5	1706.7	1594.4	1520.3	1460.8	1425.9	1408.9	1382.0
7.5°	2011.2	1930.0	1756.8	1579.8	1415.1	1252.7	1132.3	1039.8	976.1	945.4	917.6
10°	1933.8	1825.7	1579.3	1338.1	1114.4	899.2	733.0	612.7	535.7	500.3	477.7
12.5°	1864.4	1724.2	1408.0	1102.6	821.7	569.7	400.7	304.9	257.2	240.7	232.7
15°	1802.6	1630.8	1246.1	878.9	556.5	325.7	219.0	186.4	178.9	178.9	177.9
17.5°	1744.0	1539.2	1089.8	668.8	349.3	199.2	166.6	162.4	162.4	164.3	164.3
20°	1687.9	1451.9	938.8	480.0	220.0	158.1	150.6	149.6	150.6	152.9	152.9
22.5°	1639.7	1372.6	797.7	329.5	163.3	142.5	138.8	137.4	137.8	139.2	140.2
25°	1603.9	1305.5	664.6	223.3	140.7	129.8	125.6	123.2	121.3	121.3	122.2
27.5°	1581.2	1248.9	535.7	162.4	126.5	118.0	111.4	107.6	103.4	101.0	102.0
30°	1564.7	1195.1	414.9	132.6	113.3	104.8	96.3	90.2	84.0	81.2	82.1
32.5°	1558.5	1151.7	310.1	117.1	101.5	92.0	81.7	73.6	67.0	64.7	65.1
35°	1575.1	1117.2	227.0	105.7	92.0	80.2	68.4	59.5	54.3	52.9	53.3
37.5°	1618.5	1098.8	169.9	96.3	83.5	70.3	57.1	48.6	45.3	45.3	45.8
40°	1700.6	1098.3	136.4	89.7	76.0	60.9	47.2	41.1	39.2	40.1	40.6
42.5°	1820.5	1123.4	118.9	83.5	69.4	51.9	39.2	34.9	34.5	35.4	35.9
45°	1984.3	1169.1	109.5	78.4	62.3	43.4	33.0	30.2	30.2	31.6	32.1
47.5°	2184.9	1236.2	101.5	73.2	55.2	36.3	28.3	26.4	26.9	28.3	28.8
50°	2426.5	1320.7	93.5	67.5	50.0	30.2	24.5	23.1	23.6	25.5	26.0
52.5°	2701.7	1434.4	86.8	62.3	43.4	25.0	20.8	19.8	20.8	22.7	23.1
55°	2937.7	1536.4	78.8	58.1	34.9	20.8	17.0	17.0	17.9	20.3	20.8
57.5°	3164.7	1643.0	71.7	50.0	27.4	16.5	14.2	14.6	16.0	18.4	18.9
60°	3498.0	1823.8	63.2	42.0	20.8	13.2	11.8	12.3	14.2	16.5	17.0
62.5°	4063.9	2099.0	54.8	34.9	16.0	10.4	9.4	10.4	12.7	15.6	16.0
65°	4574.6	2210.8	44.8	29.3	12.3	8.0	8.0	9.4	12.3	15.1	15.6
67.5°	4290.0	1861.1	34.9	23.1	9.4	6.1	6.6	9.0	11.8	15.1	15.6
69°	3793.9	1521.7	29.7	18.4	8.0	5.7	6.1	9.0	11.8	14.6	15.1
70°	3407.4	1284.8	26.4	15.6	7.1	5.7	6.1	8.5	11.8	14.6	15.1
72.5°	2282.1	693.8	21.2	11.3	6.6	5.2	5.2	8.5	11.3	14.2	14.6
75°	980.8	191.6	17.0	8.0	5.7	4.7	4.7	8.0	10.9	13.7	14.6
77.5°	179.4	48.6	13.7	7.1	5.7	4.7	4.2	7.6	10.4	13.2	13.7
80°	71.3	24.1	10.9	6.1	5.2	4.2	3.8	7.1	9.9	12.7	13.2
82.5°	43.0	13.7	9.0	5.7	5.2	3.8	3.3	6.1	9.4	12.3	12.7
85°	34.9	9.4	7.1	5.7	4.7	3.8	2.8	5.7	8.5	11.8	12.3
87.5°	17.0	6.6	6.6	5.2	4.7	3.8	2.8	5.2	8.0	11.3	11.8
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)