

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: P321696

Luminaire Tested: **GAN-SA2D-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12209 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

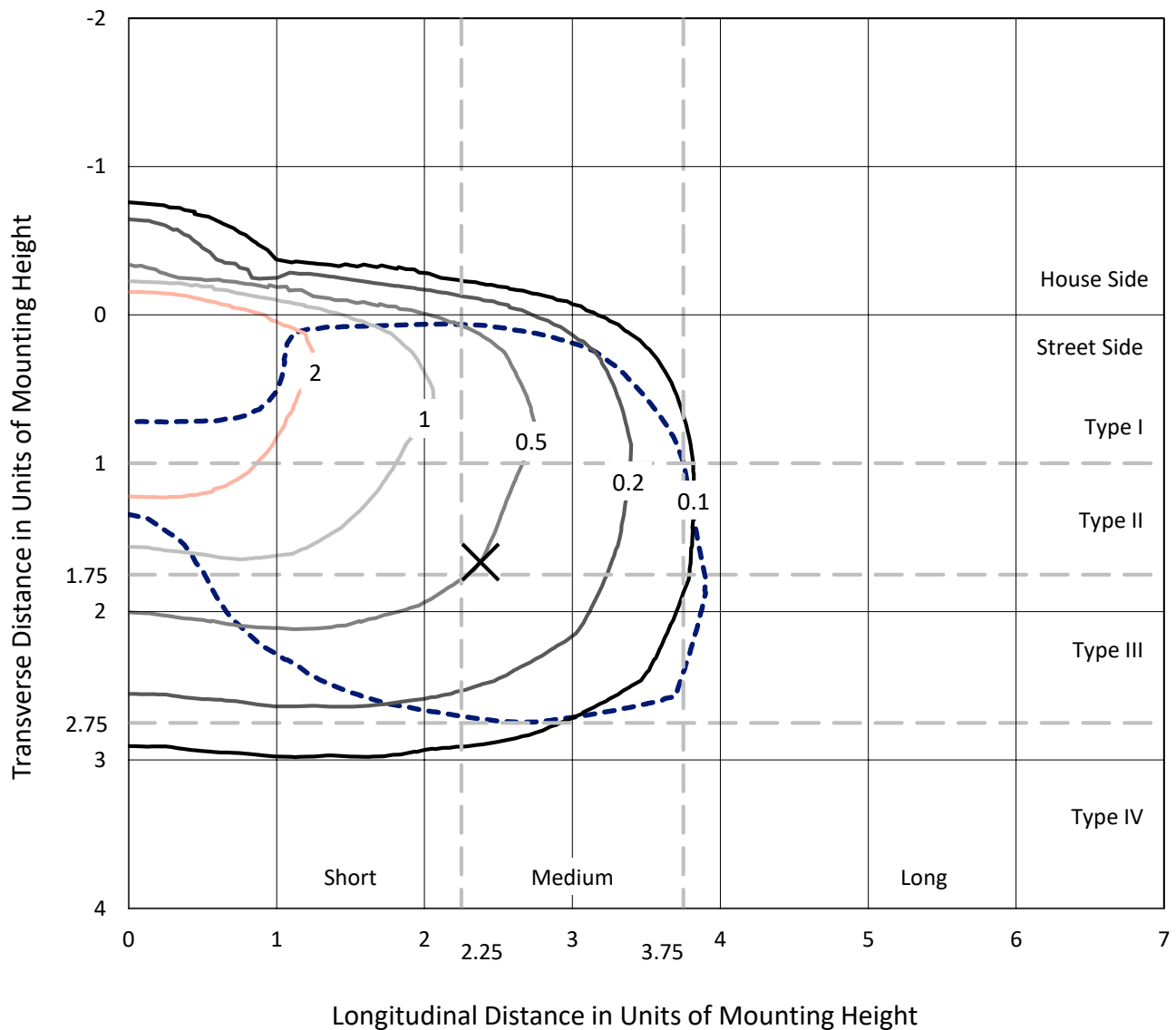
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

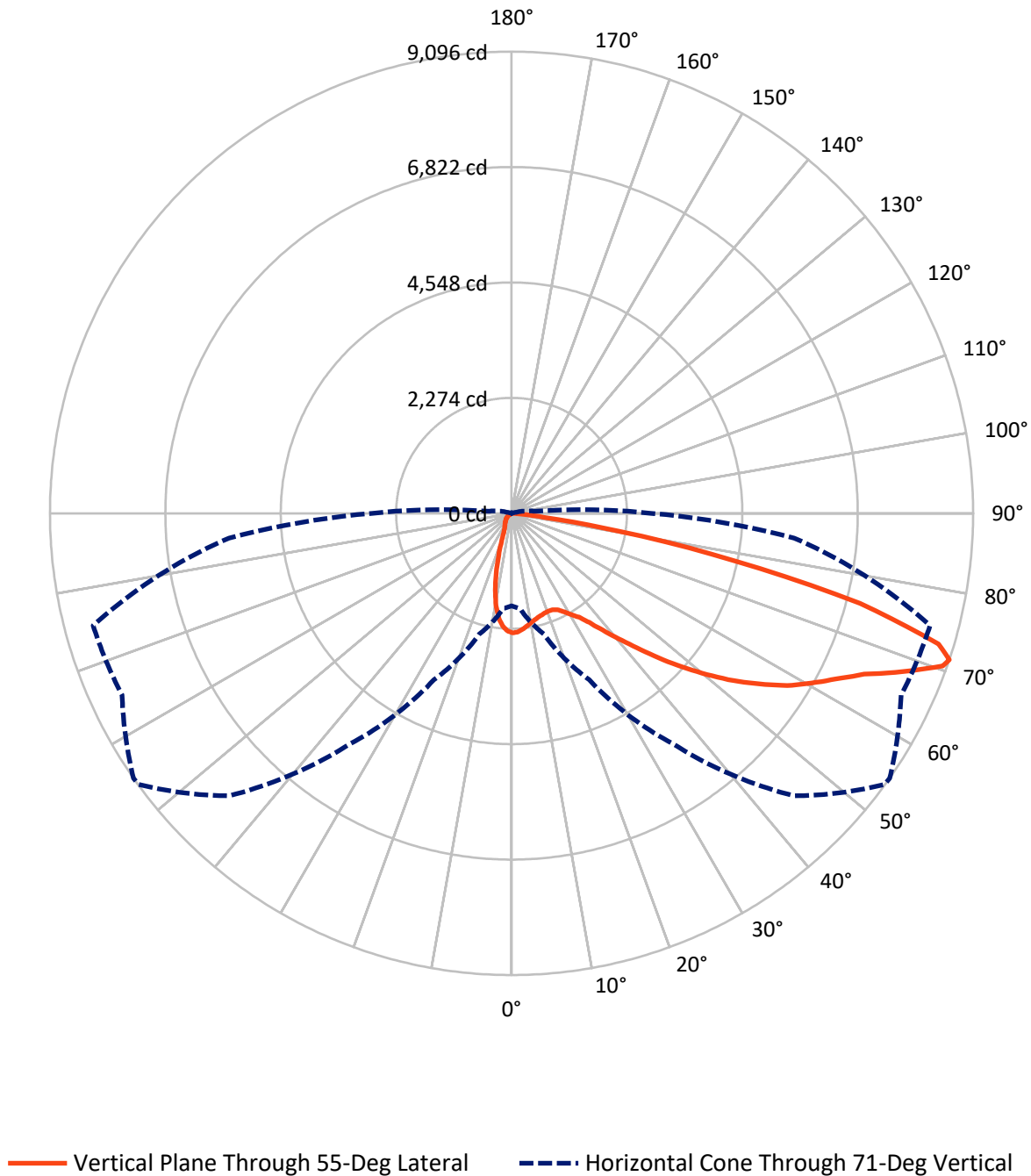
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	966.6	0.0	966.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	11242.4	0.0	11242.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	12209.0	0.0	12209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	1.6
10°-20°	453.2	3.7
20°-30°	728.3	6.0
30°-40°	1237.5	10.1
40°-50°	1920.8	15.7
50°-60°	2582.4	21.2
60°-70°	3159.1	25.9
70°-80°	1847.1	15.1
80°-90°	79.8	0.7
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°	12209.0	100.0
0°-180°	12209.0	100.0

Coefficient of Utilization



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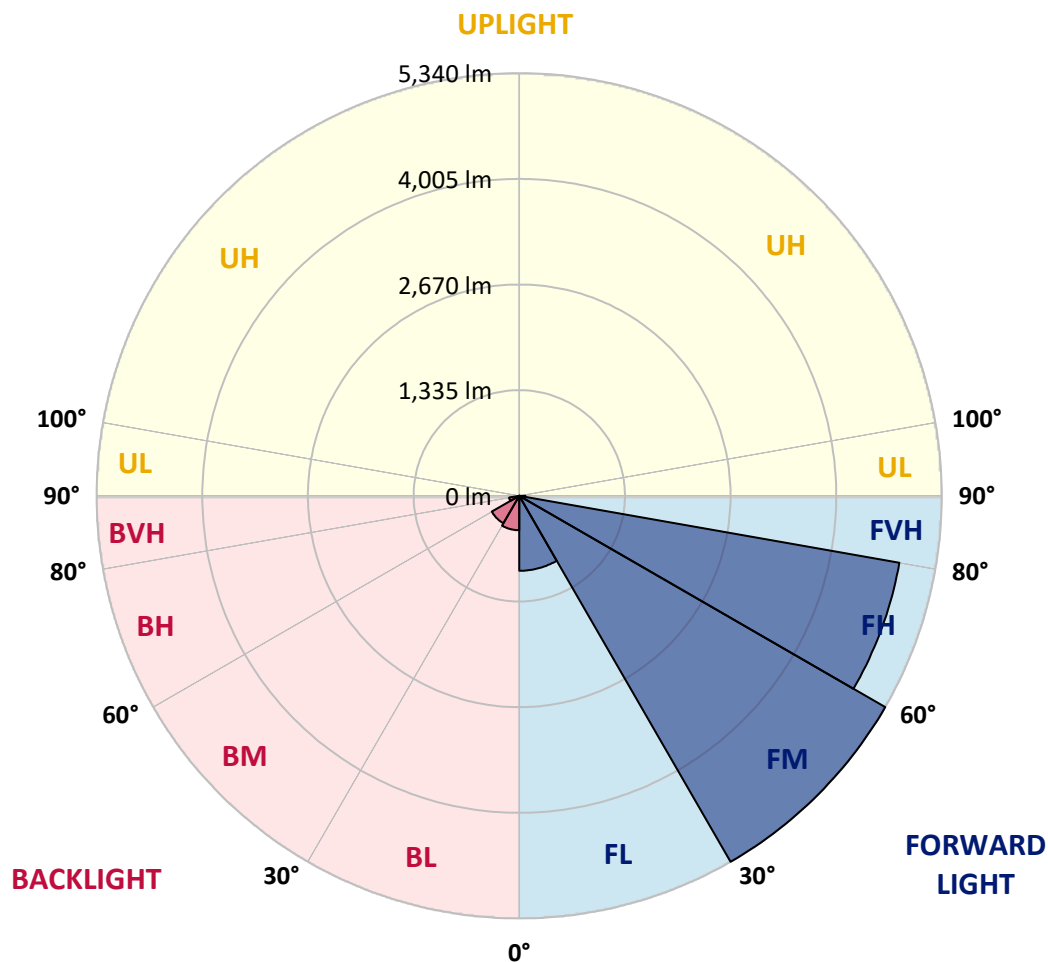
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.2	7.8			
FM	(30°-60°)	5339.9	43.7			
FH	(60°-80°)	4876.7	39.9			G2/5000
FVH	(80°-90°)	78.6	0.6			G1/100
BL	(0°-30°)	435.1	3.6	B1/500		
BM	(30°-60°)	400.8	3.3	B1/1000		
BH	(60°-80°)	129.5	1.1	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5
2.5°	2285.5	2288.2	2298.1	2302.5	2312.9	2330.4	2339.2	2339.7	2354.0	2359.5	2363.9
5°	2123.8	2140.2	2156.6	2174.2	2206.0	2248.2	2289.9	2293.7	2339.7	2373.7	2391.8
7.5°	1984.5	1999.3	2019.0	2047.0	2092.0	2158.3	2227.9	2236.1	2323.3	2400.6	2441.2
10°	1841.4	1853.5	1882.0	1923.1	1985.1	2073.9	2167.6	2181.3	2308.5	2436.8	2508.0
12.5°	1688.5	1695.6	1730.1	1789.3	1880.4	1993.3	2116.6	2134.7	2299.2	2478.4	2587.0
15°	1572.3	1575.5	1608.4	1669.8	1774.0	1920.9	2077.2	2099.1	2301.4	2528.3	2673.1
17.5°	1542.7	1544.3	1561.8	1604.1	1696.2	1856.2	2045.9	2072.8	2308.0	2577.1	2759.7
20°	1662.7	1651.2	1633.1	1626.5	1666.0	1817.3	2027.3	2057.4	2316.7	2620.4	2837.5
22.5°	1992.2	1958.2	1883.1	1782.8	1721.9	1820.0	2032.2	2062.4	2344.7	2673.6	2927.4
25°	2481.2	2434.0	2306.3	2109.0	1919.3	1899.0	2073.3	2104.0	2399.0	2737.2	3013.5
27.5°	3037.6	2991.0	2834.8	2553.0	2229.6	2055.2	2167.6	2196.1	2479.5	2793.7	3079.3
30°	3570.5	3557.3	3373.1	3053.0	2619.9	2308.5	2289.3	2313.4	2539.3	2827.7	3131.4
32.5°	4022.2	4001.4	3853.3	3542.0	3066.7	2612.8	2432.4	2439.5	2584.2	2871.5	3199.3
35°	4441.0	4415.3	4285.3	3990.9	3525.0	2984.4	2652.8	2642.4	2682.4	2959.8	3298.0
37.5°	4806.7	4830.3	4686.1	4405.9	3936.1	3370.9	2949.9	2918.7	2835.9	3103.4	3441.1
40°	5112.6	5112.6	5037.5	4803.9	4380.2	3770.6	3286.0	3244.8	3066.7	3324.9	3622.6
42.5°	5222.8	5246.3	5274.3	5142.2	4777.6	4186.1	3660.4	3617.6	3391.8	3639.0	3851.7
45°	5229.3	5266.6	5409.7	5409.2	5136.7	4598.9	4082.5	4062.2	3808.4	4042.5	4135.7
47.5°	5136.7	5183.3	5419.0	5552.8	5421.2	4983.2	4544.1	4518.9	4297.9	4537.0	4432.8
50°	4993.6	5045.1	5319.3	5609.3	5614.7	5317.6	5030.3	4992.5	4836.8	5102.2	4739.8
52.5°	4737.6	4837.4	5229.9	5622.4	5741.9	5606.5	5493.0	5476.6	5439.9	5646.5	4984.3
55°	4189.9	4300.7	5005.7	5626.8	5859.8	5862.5	5926.7	5931.1	6005.1	6155.3	5166.3
57.5°	3931.2	3993.7	4614.3	5647.6	6034.7	6153.1	6368.5	6402.5	6517.1	6638.2	5374.1
60°	3768.4	3842.4	4421.3	5619.1	6309.3	6534.1	6778.0	6789.5	6912.3	7136.6	5655.3
62.5°	3638.5	3711.4	4299.6	5509.5	6618.0	6992.4	7178.2	7179.3	7271.4	7730.3	5974.9
65°	3317.7	3379.1	4053.4	5386.1	6821.9	7445.7	7643.1	7636.0	7711.1	8356.3	6346.0
67.5°	2854.0	2901.1	3550.7	4918.5	6745.1	7858.0	8344.8	8321.2	8230.2	8897.4	6491.9
70°	2206.5	2223.5	2798.6	4098.9	6025.9	8016.4	9022.9	9010.9	8548.7	8800.4	5957.4
71°	1823.9	1879.8	2466.4	3617.6	5544.0	7870.1	9088.7	9095.9	8468.7	8536.1	5589.5
72.5°	1059.1	1106.8	1787.7	2778.3	4706.9	7259.4	8747.7	8799.3	8094.8	7764.3	4774.3
75°	227.0	242.9	662.8	1344.8	2589.2	5087.9	6904.7	7088.3	6597.7	5282.0	2877.5
77.5°	157.9	170.5	284.0	610.2	855.8	2514.1	4289.2	4496.4	3941.6	1985.1	921.0
80°	125.0	139.2	221.5	301.5	231.3	810.8	2009.2	2135.8	1314.6	443.0	155.1
82.5°	69.6	82.8	172.7	162.8	88.8	154.0	562.5	635.9	263.1	89.4	36.7
85°	20.3	24.7	111.3	118.4	37.8	29.6	95.9	119.0	49.9	23.6	16.4
87.5°	0.0	0.0	53.7	45.5	11.0	4.4	8.8	9.9	9.9	9.9	11.0
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°	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5	2354.5
2.5°	2363.9	2367.7	2354.0	2335.9	2316.7	2293.2	2268.5	2249.3	2248.7	2239.4	2230.1
5°	2392.9	2390.7	2352.9	2295.3	2227.4	2156.6	2089.2	2013.0	1987.8	1956.6	1946.1
7.5°	2446.6	2431.3	2351.3	2225.2	2076.1	1928.0	1775.1	1621.0	1555.3	1496.1	1485.6
10°	2514.1	2485.0	2340.8	2119.9	1846.4	1573.4	1342.6	1133.1	1041.0	970.3	967.0
12.5°	2584.2	2539.8	2311.8	1960.9	1545.4	1161.7	895.8	689.6	612.9	563.6	567.9
15°	2657.7	2591.4	2249.3	1746.6	1202.8	788.3	550.4	429.2	398.5	385.9	389.2
17.5°	2732.8	2627.0	2162.1	1488.4	864.5	508.7	381.0	347.0	347.0	349.8	350.9
20°	2798.0	2646.2	2033.8	1198.9	586.0	370.6	333.3	328.4	331.1	335.5	336.1
22.5°	2862.7	2647.3	1866.6	905.6	410.1	324.5	317.4	315.2	316.9	321.8	322.3
25°	2915.4	2634.1	1657.2	644.1	327.3	305.9	302.6	301.5	302.6	308.6	308.6
27.5°	2936.7	2586.4	1401.8	452.8	293.3	285.1	284.0	285.1	286.7	291.1	291.6
30°	2938.9	2503.1	1123.3	327.8	265.9	257.1	259.3	263.1	261.5	260.4	261.5
32.5°	2944.4	2406.6	851.9	269.7	242.9	229.2	226.4	226.4	219.8	216.0	213.8
35°	2962.5	2293.2	617.8	242.3	219.3	203.4	193.0	180.9	168.3	161.7	160.1
37.5°	2991.0	2174.2	442.4	224.2	198.5	180.4	160.6	139.2	121.2	116.2	116.2
40°	3043.1	2051.4	327.3	210.0	182.0	159.5	129.9	102.0	85.5	82.8	82.8
42.5°	3125.3	1922.0	260.9	197.4	167.8	138.1	99.2	74.0	61.9	60.3	59.8
45°	3210.8	1779.5	228.1	185.3	152.4	113.5	73.5	54.8	47.7	46.0	46.0
47.5°	3296.4	1627.6	212.2	173.8	137.6	88.3	54.8	43.3	40.0	40.0	40.6
50°	3368.7	1469.2	200.6	161.2	118.4	66.9	43.3	36.7	35.6	37.8	38.4
52.5°	3386.8	1313.5	186.4	145.3	94.8	51.0	35.6	32.3	32.3	32.3	32.3
55°	3375.9	1192.9	167.8	125.5	70.2	40.6	30.7	28.5	28.0	28.0	28.0
57.5°	3413.1	1121.6	134.3	97.6	50.4	32.9	26.9	25.2	24.1	23.6	23.6
60°	3488.2	1075.0	95.9	70.2	37.8	27.4	23.0	21.4	19.7	18.6	18.6
62.5°	3588.0	1034.5	71.3	52.1	29.1	21.9	19.2	17.5	15.3	14.3	14.3
65°	3664.8	962.1	54.3	38.9	21.9	17.5	14.8	14.3	11.0	9.9	9.3
67.5°	3547.4	803.1	43.9	28.5	16.4	13.7	11.5	11.0	6.6	5.5	5.5
70°	3042.5	559.2	35.1	20.8	12.1	11.0	9.3	7.1	4.9	4.4	4.4
71°	2759.1	467.1	31.8	17.5	10.4	10.4	8.8	6.0	4.4	3.8	3.8
72.5°	2292.1	331.7	26.9	13.7	9.3	11.0	9.3	5.5	4.4	3.8	3.3
75°	1330.5	138.7	18.6	9.3	7.1	13.2	12.1	4.9	3.3	2.7	2.7
77.5°	400.2	51.0	10.4	6.0	5.5	11.5	13.7	4.4	1.6	0.5	0.5
80°	72.9	21.9	6.6	3.8	3.8	7.1	10.4	2.2	0.0	0.0	0.0
82.5°	25.8	11.0	3.8	2.2	1.6	3.3	4.9	0.0	0.0	0.0	0.0
85°	14.8	7.7	2.2	1.1	0.0	0.5	1.1	0.0	0.0	0.0	0.0
87.5°	9.9	2.2	0.0	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)