

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: P321566

Luminaire Tested: **GAN-SA2C-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321566
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-SA2C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 10137 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

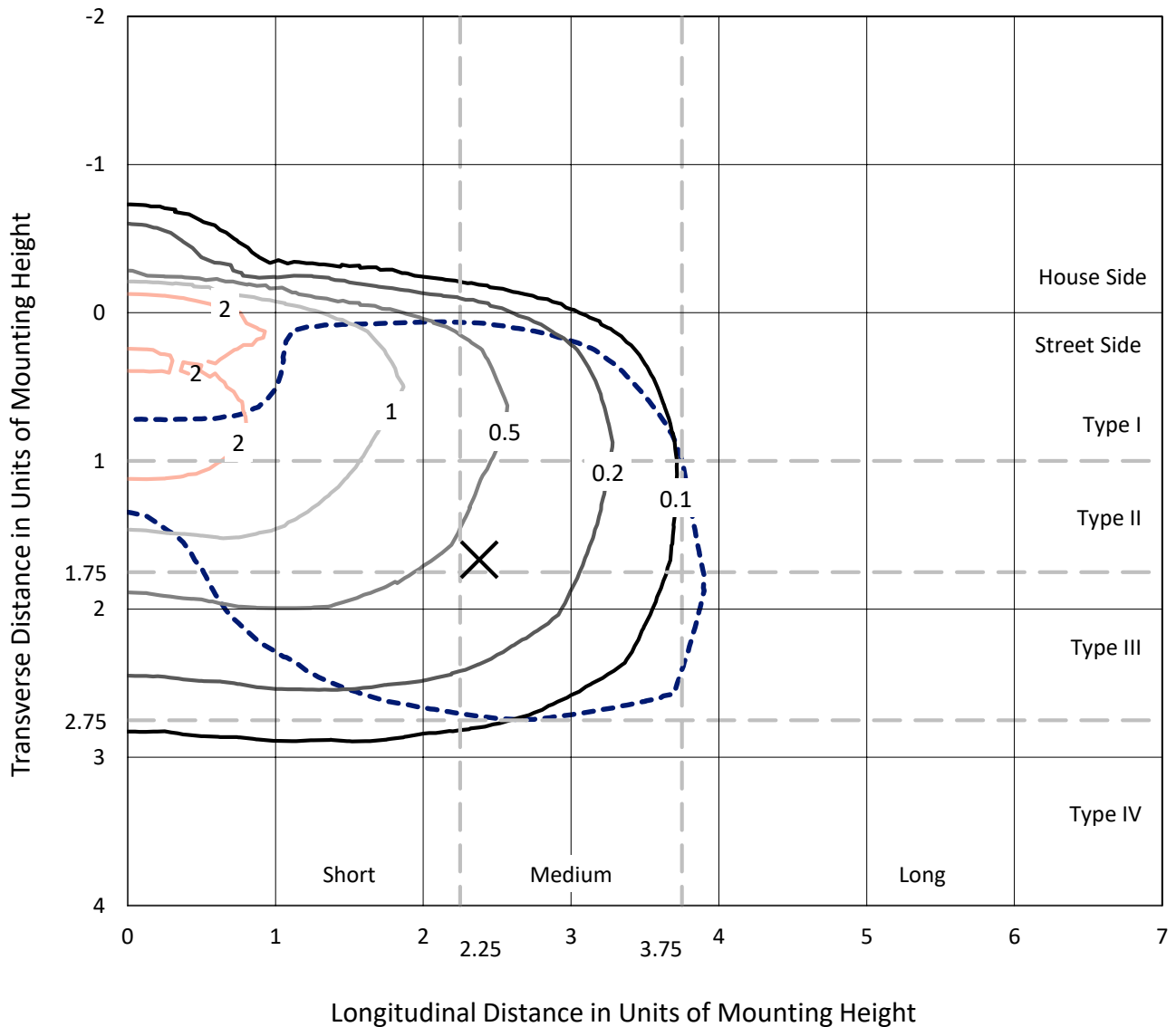
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

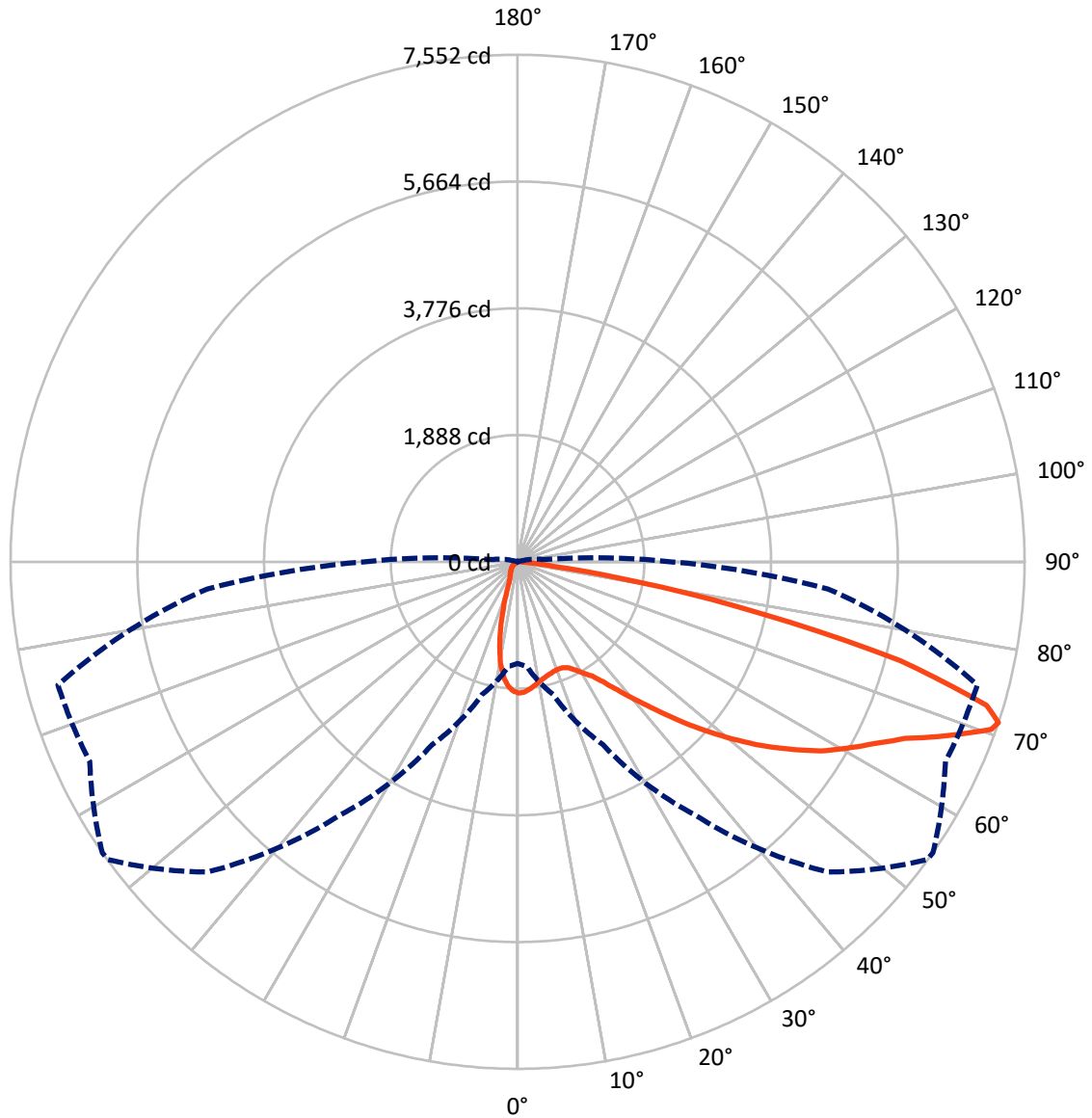
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	802.6	0.0	802.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	9334.4	0.0	9334.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	10137.0	0.0	10137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	1.6
10°-20°	376.3	3.7
20°-30°	604.7	6.0
30°-40°	1027.5	10.1
40°-50°	1594.8	15.7
50°-60°	2144.1	21.2
60°-70°	2623.0	25.9
70°-80°	1533.6	15.1
80°-90°	66.3	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°	10137.0	100.0
0°-180°	10137.0	100.0

Coefficient of Utilization

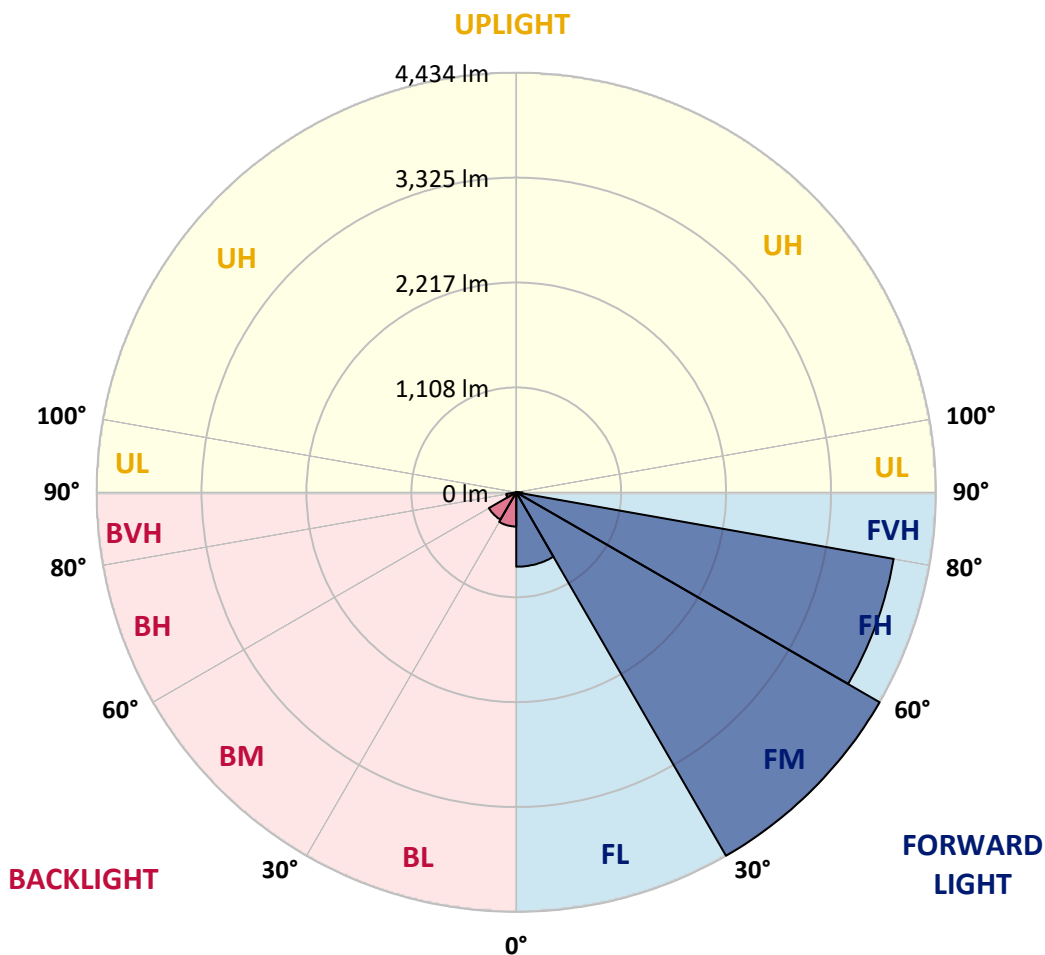


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.5	7.8			
FM (30°-60°)	4433.6	43.7			
FH (60°-80°)	4049.1	39.9			G2/5000
FVH (80°-90°)	65.2	0.6			G1/100
BL (0°-30°)	361.2	3.6	B1/500		
BM (30°-60°)	332.8	3.3	B1/1000		
BH (60°-80°)	107.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0
2.5°	1897.6	1899.9	1908.1	1911.7	1920.4	1934.9	1942.2	1942.7	1954.5	1959.1	1962.7
5°	1763.3	1777.0	1790.6	1805.2	1831.6	1866.7	1901.2	1904.4	1942.7	1970.9	1985.9
7.5°	1647.7	1660.0	1676.4	1699.6	1736.9	1792.0	1849.8	1856.6	1929.0	1993.2	2026.9
10°	1528.9	1538.9	1562.6	1596.7	1648.2	1721.9	1799.7	1811.1	1916.7	2023.2	2082.4
12.5°	1401.9	1407.8	1436.5	1485.7	1561.2	1655.0	1757.4	1772.4	1909.0	2057.8	2147.9
15°	1305.4	1308.2	1335.5	1386.4	1472.9	1594.9	1724.6	1742.8	1910.8	2099.2	2219.4
17.5°	1280.8	1282.2	1296.8	1331.8	1408.3	1541.2	1698.7	1721.0	1916.3	2139.8	2291.3
20°	1380.5	1371.0	1356.0	1350.5	1383.3	1508.9	1683.2	1708.3	1923.6	2175.7	2356.0
22.5°	1654.1	1625.9	1563.5	1480.2	1429.7	1511.2	1687.3	1712.4	1946.8	2219.9	2430.6
25°	2060.1	2021.0	1914.9	1751.0	1593.6	1576.7	1721.5	1746.9	1991.8	2272.7	2502.1
27.5°	2522.1	2483.4	2353.7	2119.7	1851.2	1706.4	1799.7	1823.4	2058.7	2319.5	2556.7
30°	2964.5	2953.6	2800.7	2534.8	2175.3	1916.7	1900.8	1920.8	2108.3	2347.8	2599.9
32.5°	3339.6	3322.3	3199.4	2940.9	2546.2	2169.3	2019.6	2025.5	2145.7	2384.2	2656.4
35°	3687.3	3665.9	3558.1	3313.6	2926.7	2477.9	2202.6	2193.9	2227.1	2457.5	2738.3
37.5°	3990.9	4010.5	3890.8	3658.2	3268.1	2798.8	2449.3	2423.3	2354.6	2576.7	2857.1
40°	4244.9	4244.9	4182.6	3988.7	3636.8	3130.7	2728.3	2694.2	2546.2	2760.6	3007.8
42.5°	4336.4	4356.0	4379.2	4269.5	3966.8	3475.7	3039.2	3003.7	2816.1	3021.4	3198.0
45°	4341.9	4372.8	4491.6	4491.2	4264.9	3818.4	3389.7	3372.8	3162.1	3356.4	3433.8
47.5°	4264.9	4303.6	4499.4	4610.4	4501.2	4137.5	3772.9	3752.0	3568.5	3767.0	3680.5
50°	4146.1	4188.9	4416.5	4657.3	4661.9	4415.2	4176.6	4145.2	4016.0	4236.3	3935.4
52.5°	3933.6	4016.4	4342.3	4668.2	4767.5	4655.0	4560.8	4547.2	4516.7	4688.3	4138.4
55°	3478.9	3570.8	4156.2	4671.9	4865.3	4867.6	4920.8	4924.5	4985.9	5110.7	4289.5
57.5°	3264.0	3315.9	3831.2	4689.2	5010.5	5108.8	5287.7	5315.9	5411.1	5511.7	4462.0
60°	3128.8	3190.3	3670.9	4665.5	5238.6	5425.2	5627.7	5637.3	5739.2	5925.4	4695.5
62.5°	3021.0	3081.5	3569.9	4574.5	5494.8	5805.7	5960.0	5960.9	6037.4	6418.4	4960.9
65°	2754.7	2805.7	3365.5	4472.0	5664.1	6182.1	6346.0	6340.1	6402.4	6938.2	5269.1
67.5°	2369.6	2408.8	2948.1	4083.8	5600.4	6524.4	6928.6	6909.0	6833.5	7387.4	5390.1
70°	1832.1	1846.2	2323.6	3403.3	5003.2	6656.0	7491.6	7481.6	7097.9	7306.9	4946.3
71°	1514.4	1560.8	2047.8	3003.7	4603.1	6534.4	7546.3	7552.2	7031.5	7087.5	4640.9
72.5°	879.4	919.0	1484.3	2306.8	3908.1	6027.4	7263.2	7305.9	6721.0	6446.6	3964.1
75°	188.4	201.6	550.3	1116.5	2149.8	4224.4	5732.9	5885.4	5478.0	4385.6	2389.2
77.5°	131.1	141.6	235.8	506.6	710.5	2087.4	3561.3	3733.3	3272.7	1648.2	764.7
80°	103.8	115.6	183.9	250.3	192.1	673.2	1668.2	1773.3	1091.5	367.8	128.8
82.5°	57.8	68.7	143.4	135.2	73.7	127.9	467.0	528.0	218.5	74.2	30.5
85°	16.8	20.5	92.4	98.3	31.4	24.6	79.7	98.8	41.4	19.6	13.7
87.5°	0.0	0.0	44.6	37.8	9.1	3.6	7.3	8.2	8.2	8.2	9.1
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°	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0	1955.0
2.5°	1962.7	1965.9	1954.5	1939.5	1923.6	1904.0	1883.5	1867.6	1867.1	1859.4	1851.6
5°	1986.8	1985.0	1953.6	1905.8	1849.4	1790.6	1734.7	1671.4	1650.4	1624.5	1615.9
7.5°	2031.4	2018.7	1952.2	1847.5	1723.7	1600.8	1473.8	1345.9	1291.3	1242.2	1233.5
10°	2087.4	2063.3	1943.6	1760.1	1533.0	1306.3	1114.7	940.8	864.4	805.7	802.9
12.5°	2145.7	2108.8	1919.5	1628.1	1283.1	964.5	743.7	572.6	508.9	467.9	471.6
15°	2206.7	2151.6	1867.6	1450.2	998.6	654.5	457.0	356.4	330.9	320.4	323.2
17.5°	2269.0	2181.2	1795.2	1235.8	717.8	422.4	316.3	288.1	288.1	290.4	291.3
20°	2323.2	2197.1	1688.7	995.5	486.6	307.7	276.7	272.6	274.9	278.6	279.0
22.5°	2376.9	2198.0	1549.9	751.9	340.5	269.5	263.5	261.7	263.1	267.2	267.6
25°	2420.6	2187.1	1376.0	534.8	271.7	254.0	251.3	250.3	251.3	256.3	256.3
27.5°	2438.3	2147.5	1163.9	376.0	243.5	236.7	235.8	236.7	238.1	241.7	242.2
30°	2440.2	2078.3	932.6	272.2	220.8	213.5	215.3	218.5	217.1	216.2	217.1
32.5°	2444.7	1998.2	707.3	223.9	201.6	190.3	188.0	188.0	182.5	179.3	177.5
35°	2459.7	1904.0	513.0	201.2	182.1	168.9	160.2	150.2	139.7	134.3	132.9
37.5°	2483.4	1805.2	367.3	186.2	164.8	149.8	133.4	115.6	100.6	96.5	96.5
40°	2526.7	1703.2	271.7	174.3	151.1	132.5	107.9	84.7	71.0	68.7	68.7
42.5°	2594.9	1595.8	216.7	163.9	139.3	114.7	82.4	61.4	51.4	50.1	49.6
45°	2665.9	1477.5	189.4	153.8	126.5	94.2	61.0	45.5	39.6	38.2	38.2
47.5°	2736.9	1351.4	176.2	144.3	114.2	73.3	45.5	36.0	33.2	33.2	33.7
50°	2797.0	1219.9	166.6	133.8	98.3	55.5	36.0	30.5	29.6	31.4	31.9
52.5°	2812.0	1090.6	154.8	120.6	78.7	42.3	29.6	26.9	26.9	26.9	26.9
55°	2802.9	990.5	139.3	104.2	58.3	33.7	25.5	23.7	23.2	23.2	23.2
57.5°	2833.9	931.3	111.5	81.0	41.9	27.3	22.3	20.9	20.0	19.6	19.6
60°	2896.2	892.6	79.7	58.3	31.4	22.8	19.1	17.8	16.4	15.5	15.5
62.5°	2979.1	858.9	59.2	43.2	24.1	18.2	15.9	14.6	12.7	11.8	11.8
65°	3042.8	798.8	45.1	32.3	18.2	14.6	12.3	11.8	9.1	8.2	7.7
67.5°	2945.4	666.8	36.4	23.7	13.7	11.4	9.6	9.1	5.5	4.6	4.6
70°	2526.2	464.3	29.1	17.3	10.0	9.1	7.7	5.9	4.1	3.6	3.6
71°	2290.9	387.8	26.4	14.6	8.6	8.6	7.3	5.0	3.6	3.2	3.2
72.5°	1903.1	275.4	22.3	11.4	7.7	9.1	7.7	4.6	3.6	3.2	2.7
75°	1104.7	115.2	15.5	7.7	5.9	10.9	10.0	4.1	2.7	2.3	2.3
77.5°	332.3	42.3	8.6	5.0	4.6	9.6	11.4	3.6	1.4	0.5	0.5
80°	60.5	18.2	5.5	3.2	3.2	5.9	8.6	1.8	0.0	0.0	0.0
82.5°	21.4	9.1	3.2	1.8	1.4	2.7	4.1	0.0	0.0	0.0	0.0
85°	12.3	6.4	1.8	0.9	0.0	0.5	0.9	0.0	0.0	0.0	0.0
87.5°	8.2	1.8	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)