

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: P199193

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL3-8030-1200-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 9164 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 128
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

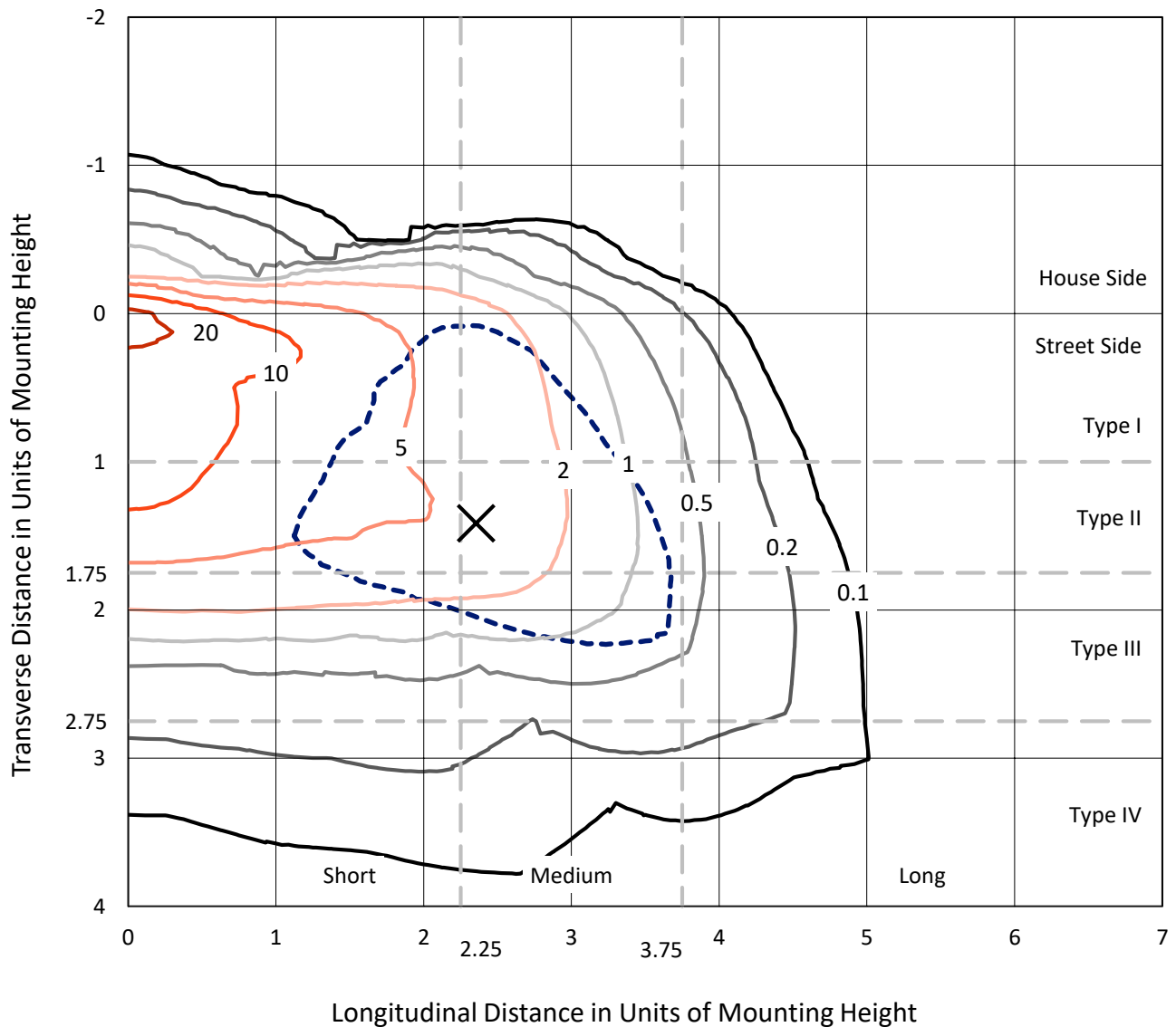


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

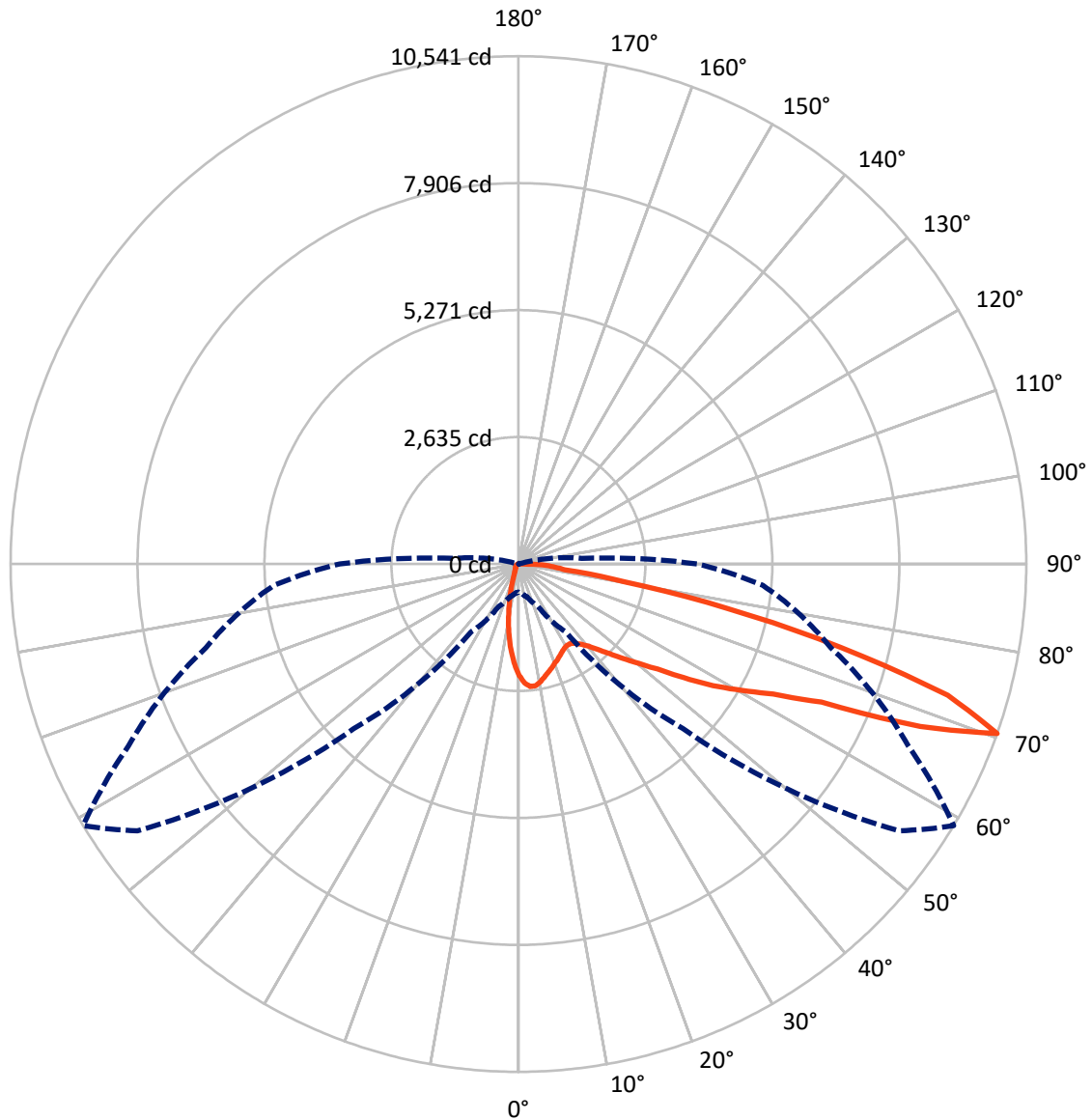


Based on 10 foot mounting height. Maximum calculated value = 24.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	704.5	0.0	704.5
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	8459.5	0.0	8459.5
	% Fixture	92.3	0.0	92.3
Total	Lumens	9164.0	0.0	9164.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	2.1
10°-20°	399.7	4.4
20°-30°	541.0	5.9
30°-40°	780.8	8.5
40°-50°	1296.7	14.1
50°-60°	1983.4	21.6
60°-70°	2466.9	26.9
70°-80°	1363.7	14.9
80°-90°	141.4	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°	9164.0	100.0
0°-180°	9164.0	100.0



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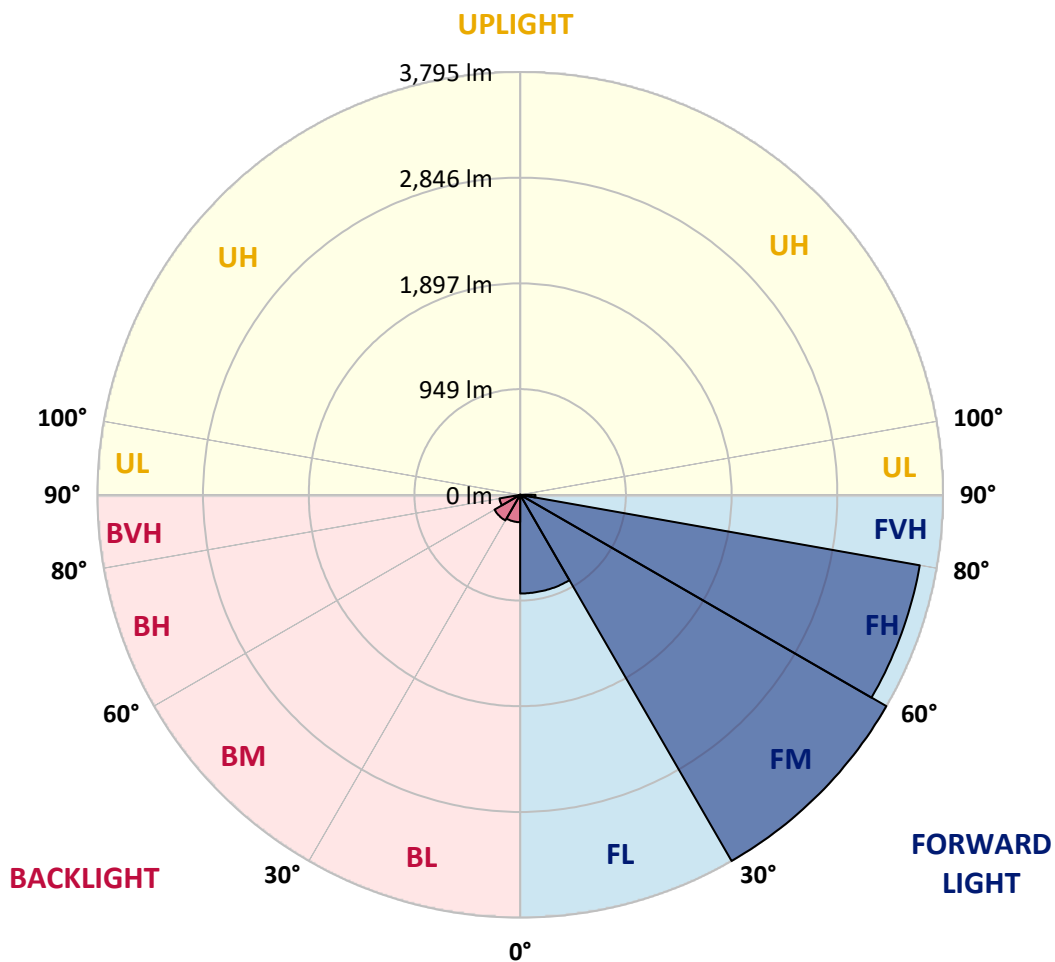
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.7	9.7			
FM	(30°-60°)	3794.9	41.4			
FH	(60°-80°)	3641.6	39.7			G2/5000
FVH	(80°-90°)	137.3	1.5			G2/225
BL	(0°-30°)	245.5	2.7	B1/500		
BM	(30°-60°)	265.9	2.9	B1/1000		
BH	(60°-80°)	189.0	2.1	B1/500		G1/500
BVH	(80°-90°)	4.1	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°	55°	59°	65°	75°	85°
0°	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2
2.5°	2619.3	2615.2	2597.9	2594.5	2575.1	2536.4	2491.5	2473.5	2436.8	2378.8	2314.5
5°	2662.9	2665.0	2666.4	2658.7	2656.0	2624.2	2574.4	2553.0	2503.9	2408.5	2291.0
7.5°	2499.7	2505.3	2522.6	2530.2	2563.3	2575.8	2565.4	2551.6	2512.9	2400.2	2235.0
10°	2327.6	2338.0	2356.7	2369.1	2409.9	2443.1	2485.2	2488.7	2480.4	2372.6	2172.1
12.5°	2179.7	2189.4	2210.1	2235.0	2276.5	2319.3	2382.2	2404.3	2432.0	2354.6	2127.1
15°	2052.5	2055.2	2075.3	2106.4	2161.0	2219.8	2294.4	2326.9	2380.8	2347.7	2092.6
17.5°	1941.2	1941.9	1955.0	1983.3	2049.7	2127.1	2214.2	2257.1	2325.5	2338.0	2062.2
20°	1867.9	1867.2	1867.9	1883.1	1941.9	2033.8	2139.6	2184.5	2272.3	2326.2	2031.0
22.5°	1843.0	1839.6	1823.7	1818.1	1855.5	1936.3	2062.8	2121.6	2224.6	2322.8	2008.2
25°	1873.4	1871.4	1837.5	1805.7	1809.1	1859.6	1984.7	2056.6	2187.3	2335.2	2002.7
27.5°	1971.6	1967.4	1915.6	1853.4	1814.0	1823.0	1926.7	2002.0	2157.6	2365.6	2010.3
30°	2100.2	2100.9	2045.6	1970.2	1877.6	1826.4	1895.6	1966.8	2137.5	2411.3	2026.9
32.5°	2243.3	2242.6	2203.2	2116.1	1997.9	1890.0	1909.4	1969.5	2140.3	2478.3	2058.7
35°	2391.2	2383.6	2370.5	2293.7	2155.5	2001.3	1972.3	2016.5	2169.3	2566.8	2112.6
37.5°	2562.0	2559.2	2572.3	2491.5	2350.4	2165.2	2082.9	2112.6	2242.6	2697.5	2199.7
40°	2833.6	2818.4	2824.7	2714.7	2570.3	2385.7	2237.7	2245.4	2359.4	2870.3	2337.3
42.5°	3351.4	3289.9	3174.5	2968.5	2812.2	2630.4	2440.3	2427.2	2524.6	3079.8	2518.4
45°	3970.2	3899.6	3608.6	3248.4	3054.2	2893.1	2690.5	2655.3	2727.9	3329.3	2752.1
47.5°	4486.6	4410.5	4024.8	3540.9	3300.3	3164.1	2967.8	2926.3	2971.2	3619.0	3032.7
50°	4662.8	4620.7	4281.9	3784.2	3548.5	3468.3	3315.5	3246.4	3257.4	3931.4	3360.4
52.5°	4582.0	4567.4	4340.7	3950.8	3778.0	3804.2	3696.4	3623.8	3611.4	4272.9	3722.7
55°	4411.2	4404.3	4293.7	4043.4	3980.5	4111.9	4230.8	4167.9	4050.3	4635.9	4022.0
57.5°	4167.2	4193.4	4272.9	4221.8	4229.4	4436.8	4727.1	4759.6	4584.0	4924.8	4243.9
60°	3515.3	3585.8	3950.1	4413.3	4767.9	4977.4	5258.7	5319.6	5036.1	5122.6	4500.4
62.5°	2598.6	2699.5	3218.7	4069.7	5064.5	6005.3	5965.9	5939.0	5467.5	5387.3	4967.0
65°	1526.4	1644.6	2083.6	3180.0	4617.2	6666.2	7286.3	6913.0	6124.9	5937.6	5710.2
67.5°	760.4	761.1	959.5	1678.5	3412.3	6205.1	9213.7	8998.0	7522.8	6748.5	6003.3
70°	584.8	600.7	710.0	975.4	1725.5	4832.9	9655.4	10541.0	8927.5	6712.5	5093.5
72.5°	495.7	506.0	631.9	848.9	1290.0	2653.2	8358.5	9317.4	8518.9	5671.4	3754.5
75°	356.7	365.0	559.3	770.1	1187.7	1316.2	5733.7	6910.3	6391.8	3989.5	2066.3
77.5°	88.5	87.8	194.9	624.9	1062.5	1096.4	3289.9	4431.2	3667.4	1633.5	530.9
80°	39.4	38.0	44.2	131.3	988.6	1034.9	1446.9	2237.7	1406.8	264.8	162.5
82.5°	27.7	26.3	27.7	48.4	330.4	960.2	874.5	969.9	515.0	90.6	69.1
85°	9.0	8.3	15.2	40.8	92.6	553.7	853.1	724.5	383.0	38.7	46.3
87.5°	1.4	1.4	5.5	22.1	27.0	184.6	500.5	501.9	172.1	22.8	20.7
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°	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2
2.5°	2282.0	2241.2	2183.8	2126.4	2074.6	2021.4	1978.5	1958.5	1949.5	1937.0	1910.1
5°	2229.5	2155.5	2029.7	1905.9	1790.5	1679.9	1585.2	1531.2	1473.2	1470.4	1442.1
7.5°	2145.1	2040.0	1841.6	1649.4	1473.2	1304.5	1159.3	1065.3	1001.0	960.9	933.3
10°	2051.1	1916.3	1653.6	1383.3	1143.4	918.0	731.4	609.7	535.8	498.4	477.0
12.5°	1976.4	1807.1	1468.3	1128.2	827.5	568.9	395.4	306.9	267.5	252.3	245.4
15°	1912.1	1706.8	1294.8	900.1	552.4	327.0	228.8	199.8	193.6	193.6	192.9
17.5°	1847.2	1610.0	1126.1	676.1	347.7	214.3	180.4	176.3	177.0	179.0	179.0
20°	1785.6	1518.1	963.7	481.8	228.1	171.4	163.8	162.5	164.5	167.3	166.6
22.5°	1735.9	1437.2	811.6	331.1	175.6	155.5	150.7	148.6	150.0	152.1	151.4
25°	1700.6	1368.1	671.9	230.9	152.8	141.7	136.2	133.4	132.0	133.4	132.7
27.5°	1679.2	1310.0	540.6	173.5	136.9	127.9	121.0	115.4	112.0	112.0	110.6
30°	1665.3	1255.4	423.8	143.8	123.7	114.1	104.4	96.8	91.3	89.9	89.2
32.5°	1664.7	1208.4	316.6	127.2	111.3	100.2	88.5	78.8	72.6	71.2	70.5
35°	1681.9	1170.4	233.0	114.8	100.2	87.1	74.0	63.6	58.1	58.1	57.4
37.5°	1726.9	1148.3	176.3	105.1	91.3	76.0	62.2	52.5	47.7	49.1	49.1
40°	1810.5	1144.1	143.8	97.5	83.6	66.4	50.5	42.9	40.8	42.9	42.9
42.5°	1938.4	1166.2	127.9	91.9	76.7	56.7	42.2	36.6	35.9	38.0	38.0
45°	2105.0	1209.8	118.9	87.1	69.1	47.0	35.3	31.8	31.1	33.9	33.9
47.5°	2306.9	1268.5	110.6	81.6	61.5	38.7	29.7	27.0	27.0	29.7	30.4
50°	2546.1	1348.0	102.3	76.0	55.3	32.5	24.9	22.8	23.5	26.3	27.0
52.5°	2821.2	1445.5	94.7	71.2	48.4	26.3	20.7	19.4	20.0	22.8	23.5
55°	3058.3	1530.5	85.7	66.4	39.4	21.4	17.3	16.6	17.3	20.7	20.7
57.5°	3265.0	1612.1	77.4	58.8	31.1	17.3	13.8	13.8	15.2	18.7	19.4
60°	3539.5	1740.7	70.5	49.8	23.5	13.1	11.1	11.8	13.8	16.6	17.3
62.5°	4025.5	1959.2	61.5	41.5	17.3	10.4	9.0	9.7	12.4	15.9	16.6
65°	4633.8	2165.9	51.2	34.6	13.1	7.6	6.9	9.0	12.4	15.9	16.6
67.5°	4571.6	1883.8	40.1	27.7	9.7	6.2	5.5	8.3	11.8	15.9	16.6
70°	3707.5	1320.4	29.7	18.7	7.6	5.5	5.5	8.3	11.8	15.2	15.9
72.5°	2571.6	734.9	22.8	12.4	6.9	5.5	4.8	7.6	11.1	15.2	15.9
75°	1223.6	225.4	18.0	9.0	6.2	4.8	4.1	7.6	11.1	15.2	15.9
77.5°	235.0	57.4	14.5	7.6	5.5	4.8	4.1	6.9	11.1	14.5	15.2
80°	79.5	25.6	11.8	6.9	5.5	4.8	4.1	6.9	10.4	13.8	14.5
82.5°	43.6	14.5	10.4	6.2	5.5	4.1	3.5	6.2	9.7	13.8	14.5
85°	33.9	10.4	8.3	6.2	5.5	4.1	3.5	6.2	9.7	13.1	13.8
87.5°	17.3	7.6	6.9	6.2	5.5	4.1	3.5	5.5	9.0	12.4	13.8
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)