

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: P199201

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
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
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10781 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

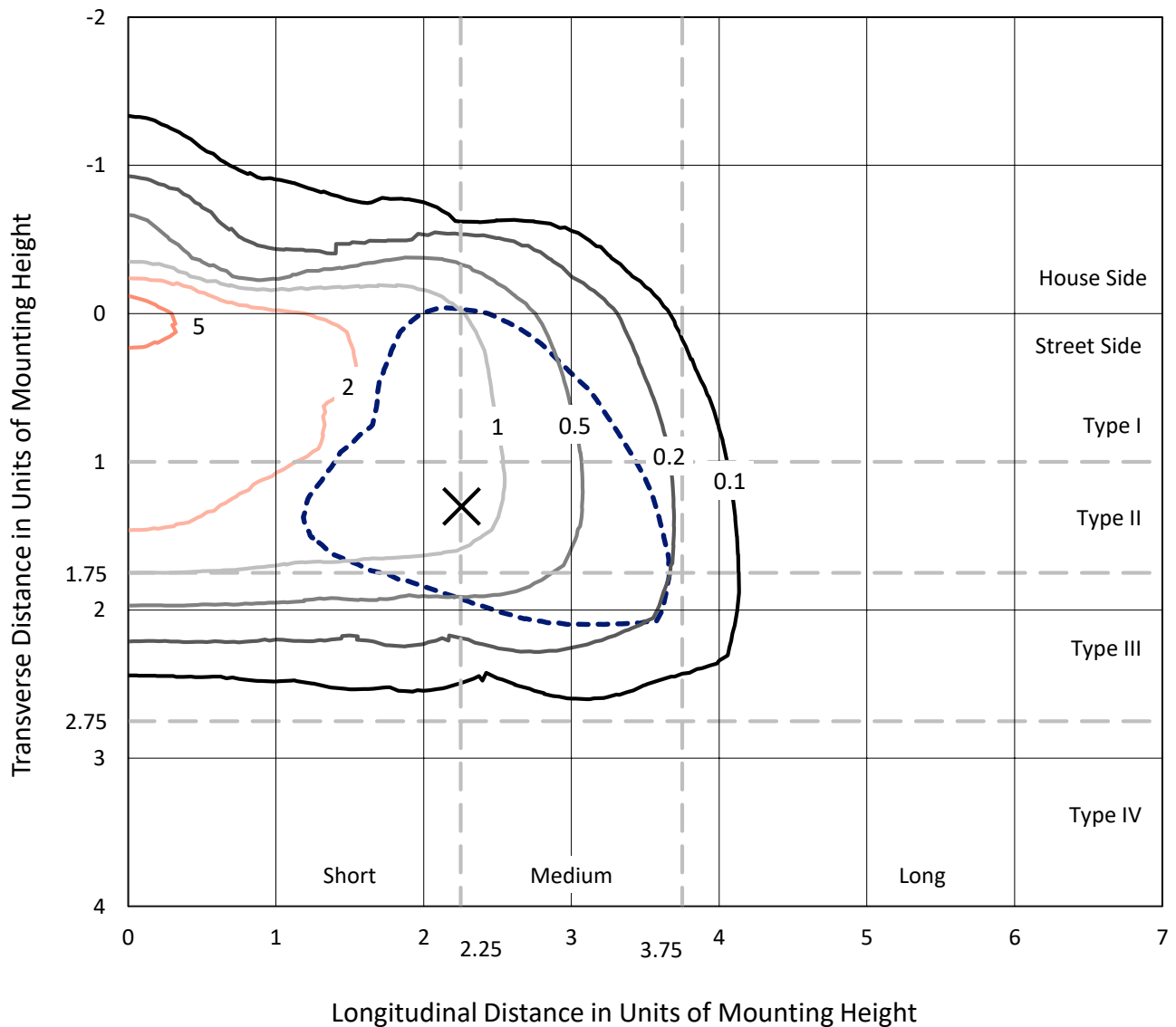
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

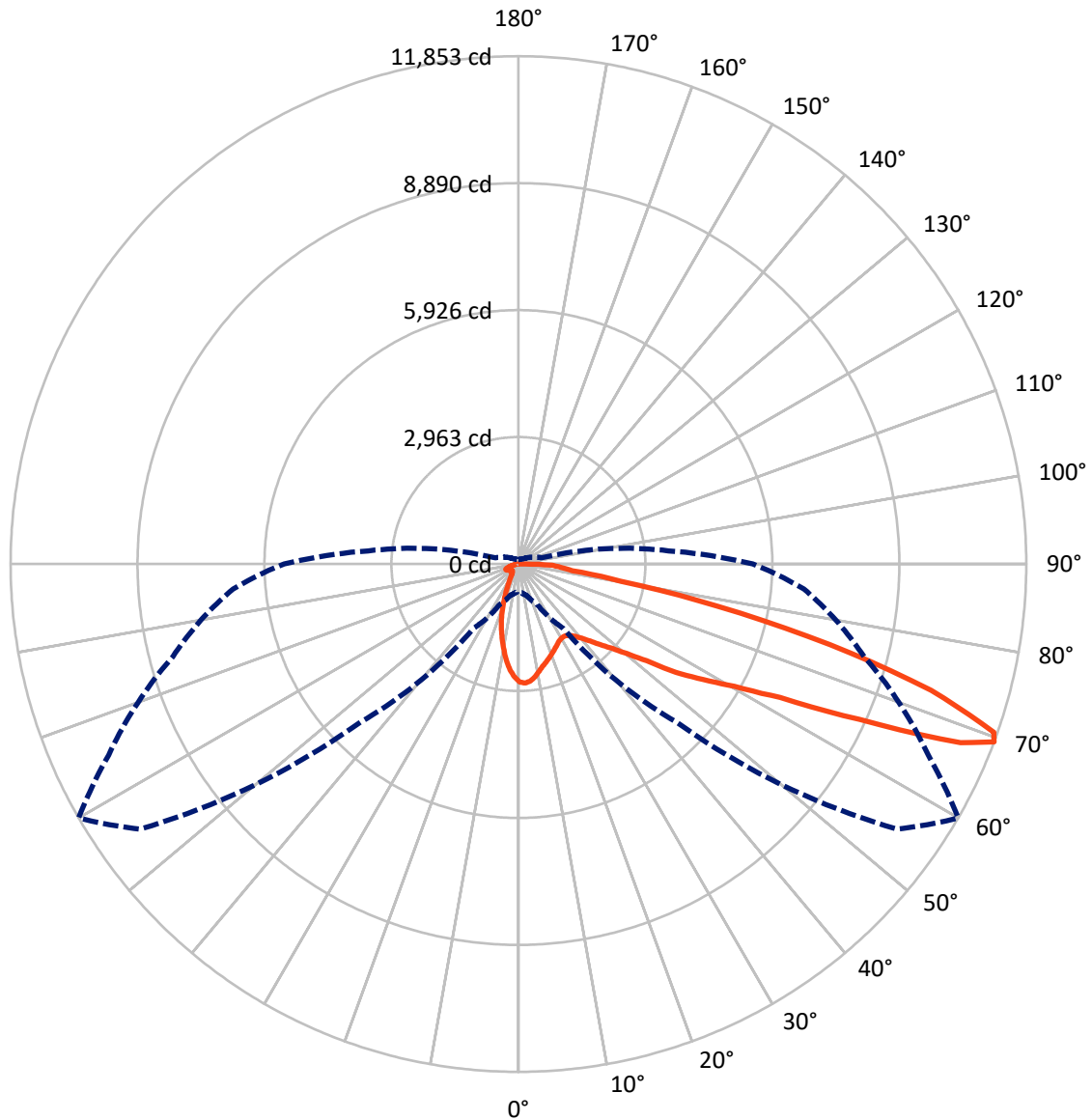


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1537.7	0.0	1537.7
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	9243.3	0.0	9243.3
	% Fixture	85.7	0.0	85.7
Total	Lumens	10781.0	0.0	10781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	2.2
10°-20°	499.7	4.6
20°-30°	637.4	5.9
30°-40°	877.1	8.1
40°-50°	1420.8	13.2
50°-60°	2229.9	20.7
60°-70°	2972.8	27.6
70°-80°	1653.6	15.3
80°-90°	256.5	2.4
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°	10781.0	100.0
0°-180°	10781.0	100.0

Coefficient of Utilization



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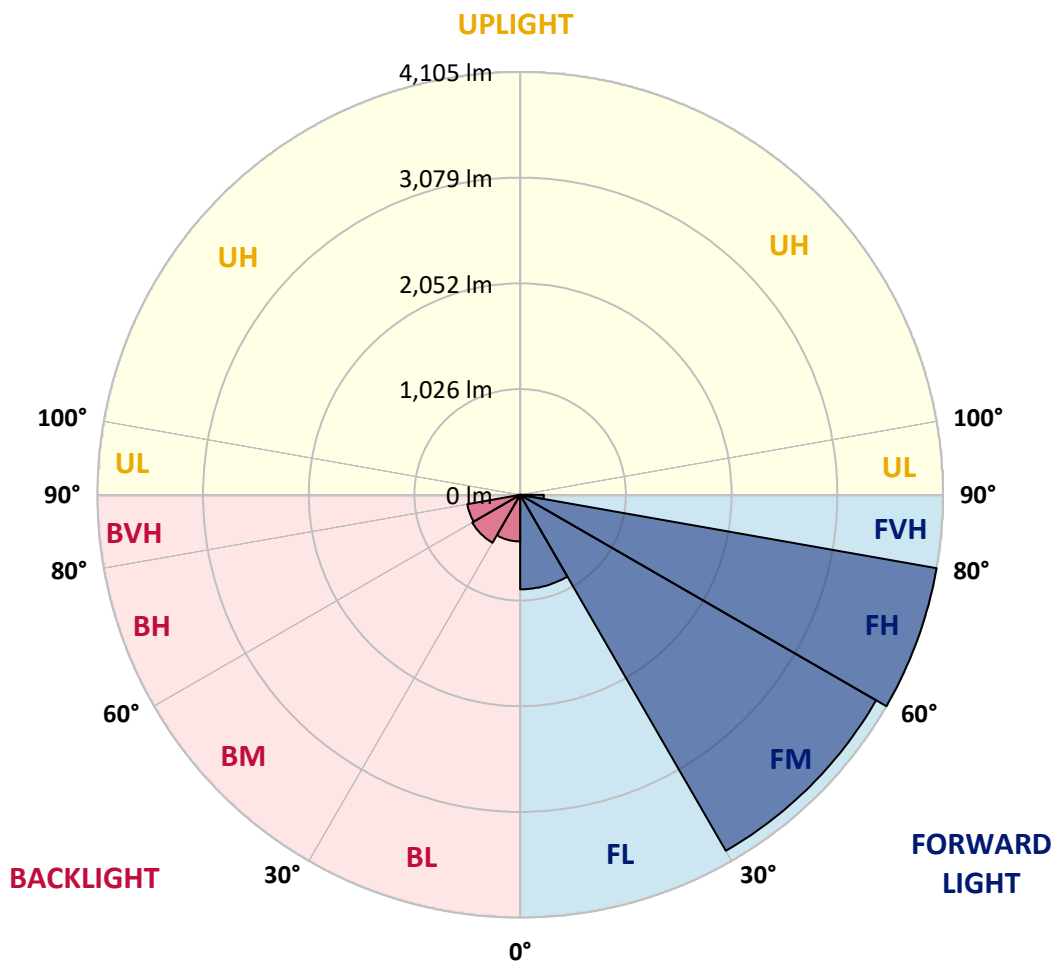
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	917.3	8.5			
FM	(30°-60°)	3990.6	37.0			
FH	(60°-80°)	4105.0	38.1			G2/5000
FVH	(80°-90°)	230.5	2.1			G3/500
BL	(0°-30°)	453.2	4.2	B1/500		
BM	(30°-60°)	537.2	5.0	B1/1000		
BH	(60°-80°)	521.4	4.8	B2/1000		G2/1000
BVH	(80°-90°)	26.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8
2.5°	2824.1	2831.7	2831.7	2825.5	2822.0	2802.0	2790.2	2781.9	2767.4	2740.4	2716.2
5°	2723.2	2737.7	2743.9	2746.7	2764.6	2758.4	2759.1	2753.6	2741.1	2712.1	2672.7
7.5°	2537.9	2540.6	2551.7	2570.4	2613.9	2644.3	2669.2	2674.1	2671.3	2649.9	2594.6
10°	2355.4	2360.2	2373.3	2405.1	2446.6	2490.2	2544.1	2566.2	2582.8	2575.9	2506.1
12.5°	2204.0	2204.7	2219.2	2255.8	2302.1	2356.7	2430.0	2464.6	2504.0	2519.9	2441.8
15°	2058.1	2067.8	2081.6	2125.8	2183.2	2252.4	2336.7	2384.4	2436.3	2481.9	2392.0
17.5°	1947.5	1955.1	1963.4	2000.0	2066.4	2152.8	2257.2	2308.4	2376.8	2446.6	2340.8
20°	1886.6	1889.4	1883.2	1901.2	1957.2	2050.5	2171.5	2233.0	2314.6	2412.7	2288.3
22.5°	1874.2	1874.2	1851.4	1847.9	1872.8	1951.6	2083.0	2158.3	2257.9	2389.2	2241.3
25°	1932.3	1928.1	1885.3	1845.9	1836.9	1877.0	1998.6	2091.3	2209.5	2388.5	2206.0
27.5°	2042.2	2036.7	1983.4	1917.1	1859.7	1842.4	1933.7	2028.4	2171.5	2412.1	2188.1
30°	2179.1	2177.0	2123.1	2040.1	1945.4	1856.2	1908.1	1995.9	2145.9	2455.6	2187.4
32.5°	2329.1	2319.4	2286.2	2203.3	2080.2	1933.0	1923.3	1997.3	2139.0	2519.2	2203.3
35°	2488.8	2481.9	2473.6	2389.9	2251.7	2068.5	1990.3	2045.0	2172.9	2607.7	2248.2
37.5°	2692.0	2684.4	2698.3	2607.0	2455.6	2246.1	2103.7	2140.4	2242.0	2736.3	2331.9
40°	3053.6	3031.5	2992.8	2852.4	2693.4	2463.9	2267.6	2273.1	2360.2	2908.4	2466.0
42.5°	3647.5	3576.3	3384.8	3126.9	2944.4	2716.9	2481.2	2454.9	2523.4	3135.9	2660.9
45°	4242.7	4162.5	3839.0	3426.2	3204.3	2988.6	2745.3	2682.4	2726.6	3400.7	2911.9
47.5°	4627.1	4587.7	4222.7	3725.6	3476.7	3284.5	3047.4	2943.7	2975.5	3700.7	3221.6
50°	4739.8	4705.9	4419.0	3959.9	3733.9	3641.9	3421.4	3283.8	3289.4	4051.2	3592.8
52.5°	4655.4	4641.6	4451.5	4105.1	3970.3	4018.7	3939.2	3747.7	3702.1	4435.6	3995.2
55°	4542.7	4547.6	4474.3	4251.0	4210.9	4369.9	4616.7	4462.5	4269.0	4835.9	4414.1
57.5°	4188.1	4191.5	4383.7	4528.9	4669.9	4862.1	5144.2	5079.2	4853.8	5267.9	4883.6
60°	3372.3	3399.3	3827.2	4471.5	5194.7	5832.1	5901.2	5789.2	5476.0	5765.7	5494.0
62.5°	2409.3	2433.5	2929.2	3881.8	5133.1	6929.9	7299.1	6853.9	6320.1	6510.3	6352.6
65°	1265.8	1261.7	1645.4	2682.4	4323.6	7184.3	9501.7	8744.0	7742.2	7534.1	7182.2
67.5°	707.2	730.0	878.7	1352.9	2817.9	6322.9	10908.5	11131.8	9719.4	8346.4	7146.3
69°	654.0	661.6	761.2	1046.0	1836.9	5216.8	10787.5	11852.9	10553.2	8349.9	6685.9
70°	635.3	643.6	734.2	963.7	1543.1	4274.5	10347.2	11768.5	10755.7	8164.6	6266.9
72.5°	569.7	580.7	668.5	866.2	1300.4	2203.3	8334.7	10072.7	9742.9	7135.9	4859.4
75°	486.0	504.7	637.4	860.0	1232.0	1400.6	5558.3	7504.4	7251.4	5103.4	2757.0
77.5°	201.2	203.3	278.6	629.8	1292.8	1340.5	2987.2	4753.6	4208.1	2237.8	830.3
80°	140.3	137.6	139.0	183.9	1043.2	1349.5	1532.7	2417.6	1879.0	590.4	388.5
82.5°	118.2	116.8	122.4	115.5	353.3	1531.3	1281.7	1260.3	884.9	318.0	185.3
85°	78.1	76.0	100.2	105.1	168.0	1216.1	1378.5	990.7	659.5	170.1	78.8
87.5°	38.0	38.7	57.4	71.2	89.2	385.1	1320.4	783.3	509.5	74.0	31.8
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°	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8	2750.8
2.5°	2706.6	2685.8	2667.2	2643.7	2625.7	2610.5	2589.7	2589.0	2585.6	2590.4	2591.8
5°	2646.4	2611.8	2559.3	2500.5	2459.1	2404.4	2351.2	2333.2	2313.2	2311.1	2317.3
7.5°	2555.9	2501.9	2412.1	2322.2	2232.3	2140.4	2053.3	2009.0	1966.1	1953.0	1959.2
10°	2454.9	2386.5	2248.9	2102.3	1975.8	1838.9	1706.2	1620.5	1542.4	1509.2	1517.5
12.5°	2376.1	2289.0	2095.4	1905.3	1715.9	1519.5	1344.6	1175.3	1047.4	990.0	993.4
15°	2308.4	2197.1	1951.6	1698.6	1461.5	1192.5	949.9	753.6	641.6	600.1	598.7
17.5°	2235.1	2100.3	1801.6	1506.4	1198.8	866.2	636.0	519.9	475.6	461.8	461.8
20°	2157.0	2000.7	1644.7	1296.9	922.2	604.9	478.4	433.5	416.9	412.7	412.0
22.5°	2084.4	1903.2	1487.1	1073.6	667.1	459.0	407.2	389.9	387.1	390.6	390.6
25°	2027.0	1817.5	1327.4	838.6	485.3	384.4	362.3	360.2	370.6	383.0	385.1
27.5°	1984.1	1740.8	1169.7	612.5	381.6	334.6	327.0	336.0	360.2	385.1	389.9
30°	1954.4	1675.1	981.0	440.4	318.0	293.1	296.6	312.5	349.1	387.1	397.5
32.5°	1941.3	1621.9	790.9	338.1	271.7	257.9	266.9	287.6	325.6	363.6	376.1
35°	1953.7	1583.1	615.3	280.7	237.8	227.4	237.8	259.2	284.1	302.8	310.4
37.5°	1998.6	1569.3	463.2	248.9	215.7	205.3	213.6	228.1	239.2	246.1	249.6
40°	2093.4	1583.8	362.9	232.3	203.3	191.5	193.6	200.5	208.1	213.6	214.3
42.5°	2244.1	1631.5	322.9	226.1	195.6	180.4	177.0	181.8	190.1	197.7	199.1
45°	2444.5	1711.0	318.7	228.1	192.2	171.5	164.5	169.4	180.4	192.9	195.0
47.5°	2703.8	1836.9	338.1	239.2	194.3	166.6	156.2	161.1	175.6	192.2	195.0
50°	3010.7	2011.1	374.0	255.8	203.9	166.6	152.8	156.9	172.1	190.8	193.6
52.5°	3372.3	2253.7	411.3	272.4	217.8	172.8	154.2	153.5	167.3	184.6	188.0
55°	3771.2	2555.2	447.3	286.9	225.4	181.1	157.6	149.3	160.4	174.2	177.0
57.5°	4240.6	2967.9	510.2	300.7	229.5	187.4	161.8	145.2	151.4	161.1	163.2
60°	4877.3	3574.2	632.6	324.2	237.1	190.1	162.5	141.0	140.3	147.3	147.9
62.5°	5707.6	4284.2	749.4	351.9	252.3	190.8	159.7	138.3	131.4	133.4	133.4
65°	6298.0	4545.5	715.5	375.4	266.2	190.1	156.9	136.2	124.4	121.0	121.0
67.5°	5962.0	4015.3	607.7	381.6	267.5	182.5	150.7	131.4	118.2	109.9	109.9
69°	5468.4	3519.6	557.9	370.6	256.5	173.5	143.8	126.5	114.1	104.4	104.4
70°	5066.1	3144.2	527.5	357.4	243.3	165.9	137.6	121.7	109.9	101.6	100.9
72.5°	3782.3	2098.2	450.7	308.3	199.8	140.3	120.3	108.5	98.9	93.3	93.3
75°	1995.9	1051.5	369.2	251.6	154.2	112.0	98.9	91.3	85.7	85.0	84.3
77.5°	654.0	475.6	265.5	189.4	113.4	87.1	78.8	74.0	73.3	76.0	76.0
80°	353.3	284.1	170.8	127.9	78.8	65.0	60.8	60.1	62.2	66.4	66.4
82.5°	171.5	140.3	101.6	78.8	53.9	47.7	47.7	48.4	51.2	56.0	56.0
85°	74.0	66.4	58.8	44.2	33.2	29.7	33.9	37.3	39.4	42.9	44.2
87.5°	35.3	31.1	27.0	17.3	14.5	15.2	18.0	22.1	26.3	29.0	29.7
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)