

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: P198559

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198559
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-SL3-7030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 10660 lumens
Efficiency: N/A
Efficacy: 96.0 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

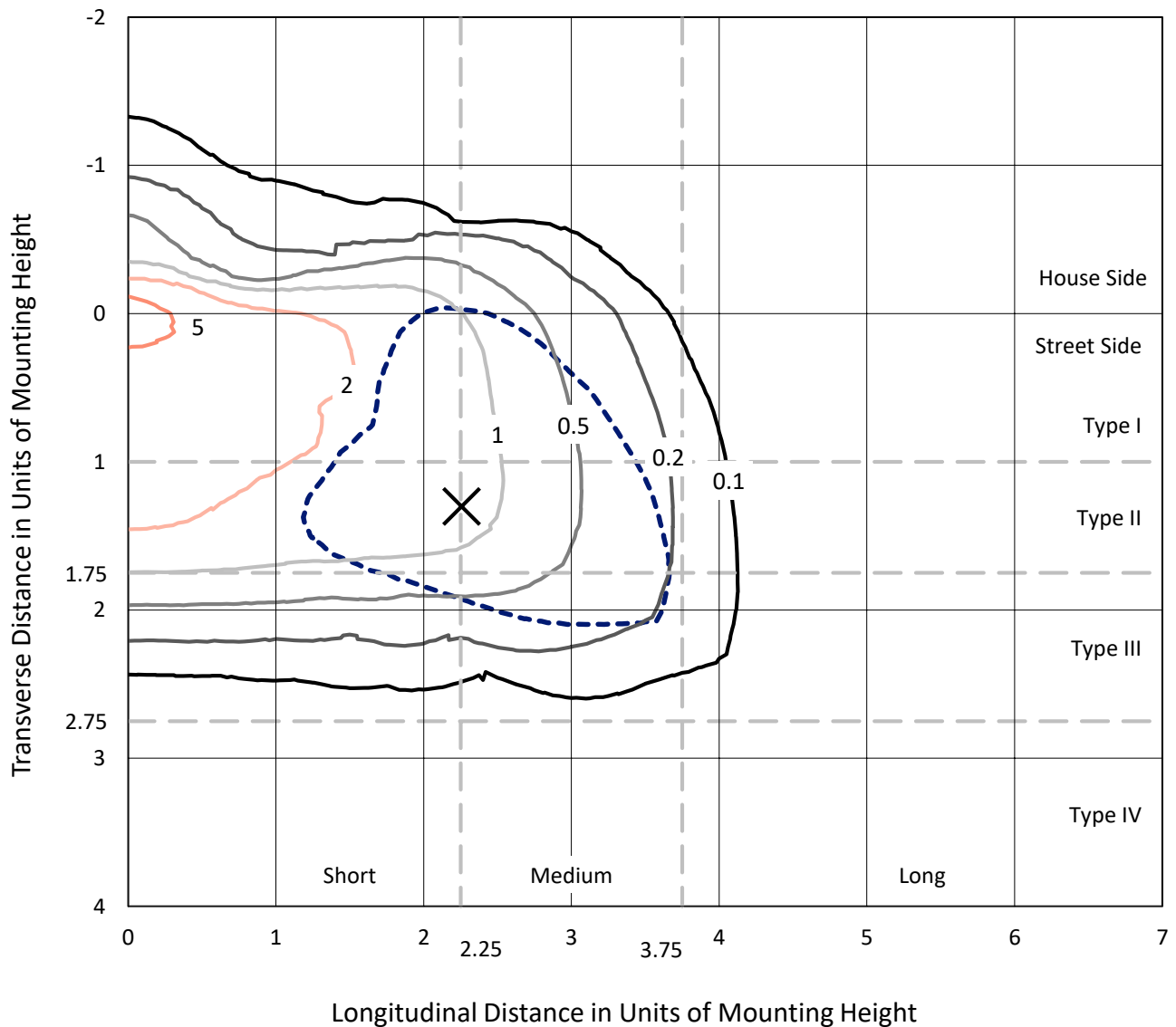
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

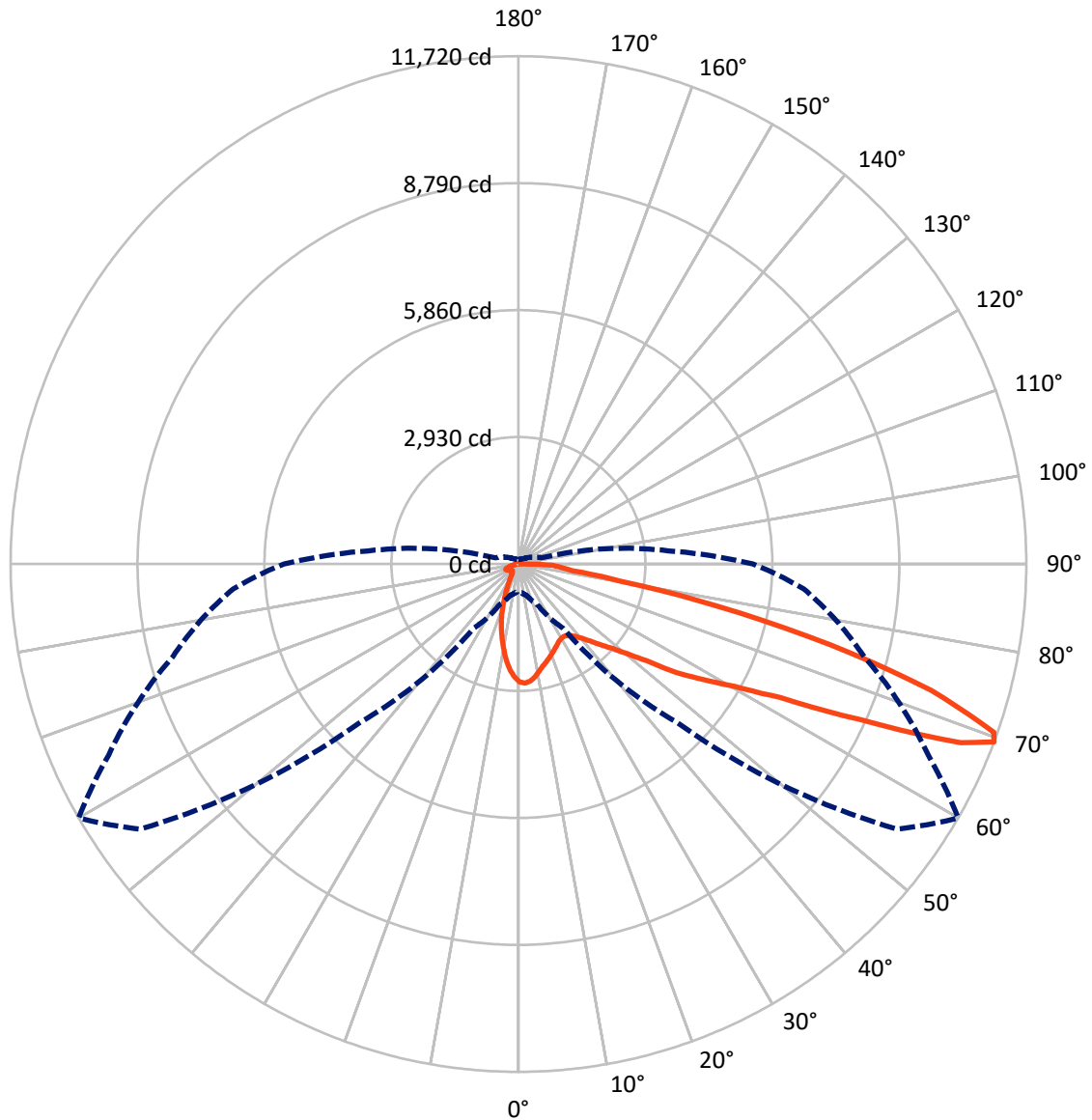
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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	1520.5	0.0	1520.5
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	9139.5	0.0	9139.5
	% Fixture	85.7	0.0	85.7
Total	Lumens	10660.0	0.0	10660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	2.2
10°-20°	494.0	4.6
20°-30°	630.2	5.9
30°-40°	867.3	8.1
40°-50°	1404.8	13.2
50°-60°	2204.8	20.7
60°-70°	2939.4	27.6
70°-80°	1635.0	15.3
80°-90°	253.6	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°	10660.0	100.0
0°-180°	10660.0	100.0

Coefficient of Utilization



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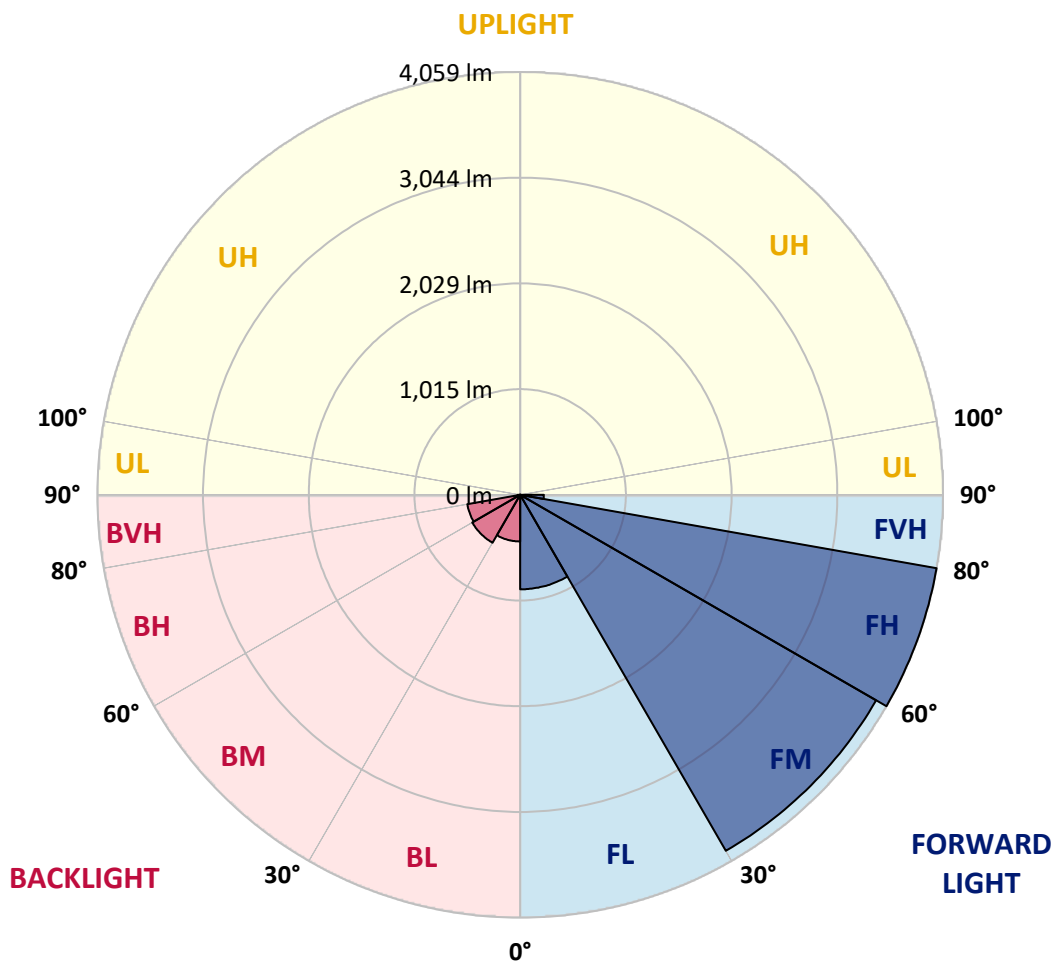
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	907.0	8.5			
FM	(30°-60°)	3945.8	37.0			
FH	(60°-80°)	4058.9	38.1			G2/5000
FVH	(80°-90°)	227.9	2.1			G3/500
BL	(0°-30°)	448.1	4.2	B1/500		
BM	(30°-60°)	531.2	5.0	B1/1000		
BH	(60°-80°)	515.5	4.8	B2/1000		G2/1000
BVH	(80°-90°)	25.7	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°	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9
2.5°	2792.4	2799.9	2799.9	2793.8	2790.3	2770.5	2758.9	2750.7	2736.3	2709.7	2685.8
5°	2692.6	2706.9	2713.1	2715.8	2733.6	2727.5	2728.1	2722.7	2710.4	2681.7	2642.7
7.5°	2509.4	2512.1	2523.1	2541.5	2584.6	2614.7	2639.3	2644.1	2641.3	2620.1	2565.4
10°	2328.9	2333.7	2346.7	2378.1	2419.2	2462.2	2515.5	2537.4	2553.8	2547.0	2477.9
12.5°	2179.2	2179.9	2194.3	2230.5	2276.3	2330.3	2402.8	2436.9	2475.9	2491.6	2414.4
15°	2035.0	2044.6	2058.2	2102.0	2158.7	2227.1	2310.5	2357.6	2408.9	2454.0	2365.2
17.5°	1925.6	1933.1	1941.3	1977.6	2043.2	2128.6	2231.9	2282.4	2350.1	2419.2	2314.6
20°	1865.5	1868.2	1862.0	1879.8	1935.2	2027.5	2147.1	2207.9	2288.6	2385.7	2262.6
22.5°	1853.2	1853.2	1830.6	1827.2	1851.8	1929.7	2059.6	2134.1	2232.5	2362.4	2216.1
25°	1910.6	1906.5	1864.1	1825.1	1816.3	1855.9	1976.2	2067.8	2184.7	2361.7	2181.3
27.5°	2019.3	2013.8	1961.2	1895.5	1838.8	1821.7	1912.0	2005.6	2147.1	2385.0	2163.5
30°	2154.6	2152.6	2099.2	2017.2	1923.6	1835.4	1886.7	1973.5	2121.8	2428.0	2162.8
32.5°	2303.0	2293.4	2260.6	2178.5	2056.9	1911.3	1901.7	1974.8	2115.0	2490.9	2178.5
35°	2460.9	2454.0	2445.8	2363.1	2226.4	2045.2	1968.0	2022.0	2148.5	2578.4	2223.0
37.5°	2661.8	2654.3	2668.0	2577.7	2428.0	2220.9	2080.1	2116.3	2216.8	2705.6	2305.7
40°	3019.3	2997.5	2959.2	2820.4	2663.2	2436.3	2242.1	2247.6	2333.7	2875.8	2438.3
42.5°	3606.5	3536.1	3346.8	3091.8	2911.3	2686.4	2453.3	2427.4	2495.0	3100.7	2631.1
45°	4195.1	4115.8	3795.9	3387.8	3168.4	2955.1	2714.5	2652.3	2696.0	3362.5	2879.2
47.5°	4575.1	4536.2	4175.3	3683.8	3437.7	3247.7	3013.2	2910.6	2942.1	3659.2	3185.4
50°	4686.6	4653.1	4369.4	3915.5	3692.0	3601.1	3383.0	3247.0	3252.4	4005.7	3552.5
52.5°	4603.2	4589.5	4401.5	4059.1	3925.8	3973.6	3895.0	3705.6	3660.5	4385.8	3950.4
55°	4491.8	4496.5	4424.1	4203.3	4163.6	4320.9	4564.9	4412.5	4221.1	4781.6	4364.6
57.5°	4141.1	4144.5	4334.5	4478.1	4617.5	4807.6	5086.5	5022.2	4799.4	5208.8	4828.8
60°	3334.5	3361.1	3784.3	4421.3	5136.4	5766.6	5835.0	5724.2	5414.6	5701.0	5432.3
62.5°	2382.2	2406.2	2896.3	3838.3	5075.5	6852.1	7217.2	6776.9	6249.2	6437.2	6281.3
65°	1251.6	1247.5	1626.9	2652.3	4275.1	7103.7	9395.0	8645.8	7655.3	7449.6	7101.6
67.5°	699.3	721.9	868.8	1337.8	2786.2	6251.9	10786.1	11006.9	9610.3	8252.8	7066.1
69°	646.7	654.2	752.6	1034.2	1816.3	5158.2	10666.5	11719.8	10434.7	8256.2	6610.8
70°	628.2	636.4	726.0	952.9	1525.7	4226.5	10231.0	11636.4	10635.0	8073.0	6196.6
72.5°	563.3	574.2	661.0	856.5	1285.8	2178.5	8241.1	9959.6	9633.6	7055.8	4804.8
75°	480.6	499.0	630.3	850.4	1218.1	1384.9	5495.9	7420.2	7170.0	5046.1	2726.1
77.5°	198.9	201.0	275.5	622.7	1278.3	1325.4	2953.7	4700.2	4160.9	2212.7	821.0
80°	138.8	136.0	137.4	181.8	1031.5	1334.3	1515.5	2390.5	1857.9	583.8	384.2
82.5°	116.9	115.5	121.0	114.2	349.3	1514.1	1267.3	1246.2	875.0	314.4	183.2
85°	77.2	75.2	99.1	103.9	166.1	1202.4	1363.0	979.6	652.1	168.2	77.9
87.5°	37.6	38.3	56.7	70.4	88.2	380.7	1305.6	774.5	503.8	73.1	31.4
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°	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9
2.5°	2676.2	2655.7	2637.2	2614.0	2596.2	2581.2	2560.7	2560.0	2556.6	2561.3	2562.7
5°	2616.7	2582.5	2530.6	2472.5	2431.5	2377.5	2324.8	2307.1	2287.2	2285.2	2291.3
7.5°	2527.2	2473.8	2385.0	2296.1	2207.3	2116.3	2030.2	1986.5	1944.1	1931.1	1937.2
10°	2427.4	2359.7	2223.7	2078.7	1953.6	1818.3	1687.1	1602.3	1525.0	1492.2	1500.4
12.5°	2349.4	2263.3	2071.9	1883.9	1696.6	1502.5	1329.5	1162.1	1035.6	978.9	982.3
15°	2282.4	2172.4	1929.7	1679.5	1445.1	1179.2	939.2	745.1	634.4	593.3	592.0
17.5°	2210.0	2076.7	1781.4	1489.5	1185.3	856.5	628.9	514.0	470.3	456.6	456.6
20°	2132.7	1978.3	1626.2	1282.4	911.9	598.1	473.0	428.6	412.2	408.1	407.4
22.5°	2061.0	1881.9	1470.4	1061.6	659.6	453.9	402.6	385.5	382.8	386.2	386.2
25°	2004.2	1797.1	1312.5	829.2	479.9	380.1	358.2	356.1	366.4	378.7	380.7
27.5°	1961.9	1721.2	1156.6	605.6	377.3	330.8	323.3	332.2	356.1	380.7	385.5
30°	1932.5	1656.3	970.0	435.4	314.4	289.8	293.3	309.0	345.2	382.8	393.1
32.5°	1919.5	1603.7	782.0	334.3	268.6	255.0	263.9	284.4	322.0	359.6	371.9
35°	1931.8	1565.4	608.4	277.5	235.1	224.9	235.1	256.3	280.9	299.4	306.9
37.5°	1976.2	1551.7	458.0	246.1	213.3	203.0	211.2	225.6	236.5	243.4	246.8
40°	2069.9	1566.1	358.9	229.7	201.0	189.3	191.4	198.2	205.8	211.2	211.9
42.5°	2218.9	1613.2	319.2	223.5	193.5	178.4	175.0	179.8	188.0	195.5	196.9
45°	2417.1	1691.8	315.1	225.6	190.0	169.5	162.7	167.5	178.4	190.7	192.8
47.5°	2673.4	1816.3	334.3	236.5	192.1	164.7	154.5	159.3	173.6	190.0	192.8
50°	2977.0	1988.5	369.8	252.9	201.7	164.7	151.1	155.2	170.2	188.7	191.4
52.5°	3334.5	2228.4	406.7	269.3	215.3	170.9	152.4	151.8	165.4	182.5	185.9
55°	3728.9	2526.5	442.3	283.7	222.8	179.1	155.9	147.7	158.6	172.3	175.0
57.5°	4193.0	2934.6	504.5	297.4	226.9	185.2	160.0	143.6	149.7	159.3	161.3
60°	4822.6	3534.1	625.5	320.6	234.5	188.0	160.6	139.4	138.8	145.6	146.3
62.5°	5643.6	4236.1	741.0	347.9	249.5	188.7	157.9	136.7	129.9	131.9	131.9
65°	6227.3	4494.5	707.5	371.2	263.2	188.0	155.2	134.7	123.0	119.6	119.6
67.5°	5895.1	3970.2	600.9	377.3	264.5	180.5	149.0	129.9	116.9	108.7	108.7
69°	5407.1	3480.1	551.6	366.4	253.6	171.6	142.2	125.1	112.8	103.2	103.2
70°	5009.2	3108.9	521.6	353.4	240.6	164.1	136.0	120.3	108.7	100.5	99.8
72.5°	3739.8	2074.6	445.7	304.9	197.6	138.8	118.9	107.3	97.8	92.3	92.3
75°	1973.5	1039.7	365.0	248.8	152.4	110.7	97.8	90.2	84.8	84.1	83.4
77.5°	646.7	470.3	262.5	187.3	112.1	86.1	77.9	73.1	72.5	75.2	75.2
80°	349.3	280.9	168.8	126.5	77.9	64.3	60.2	59.5	61.5	65.6	65.6
82.5°	169.5	138.8	100.5	77.9	53.3	47.2	47.2	47.9	50.6	55.4	55.4
85°	73.1	65.6	58.1	43.7	32.8	29.4	33.5	36.9	39.0	42.4	43.7
87.5°	34.9	30.8	26.7	17.1	14.4	15.0	17.8	21.9	26.0	28.7	29.4
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)