

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: P1210984

Luminaire Tested: **ARCH4-130-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16069 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132
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



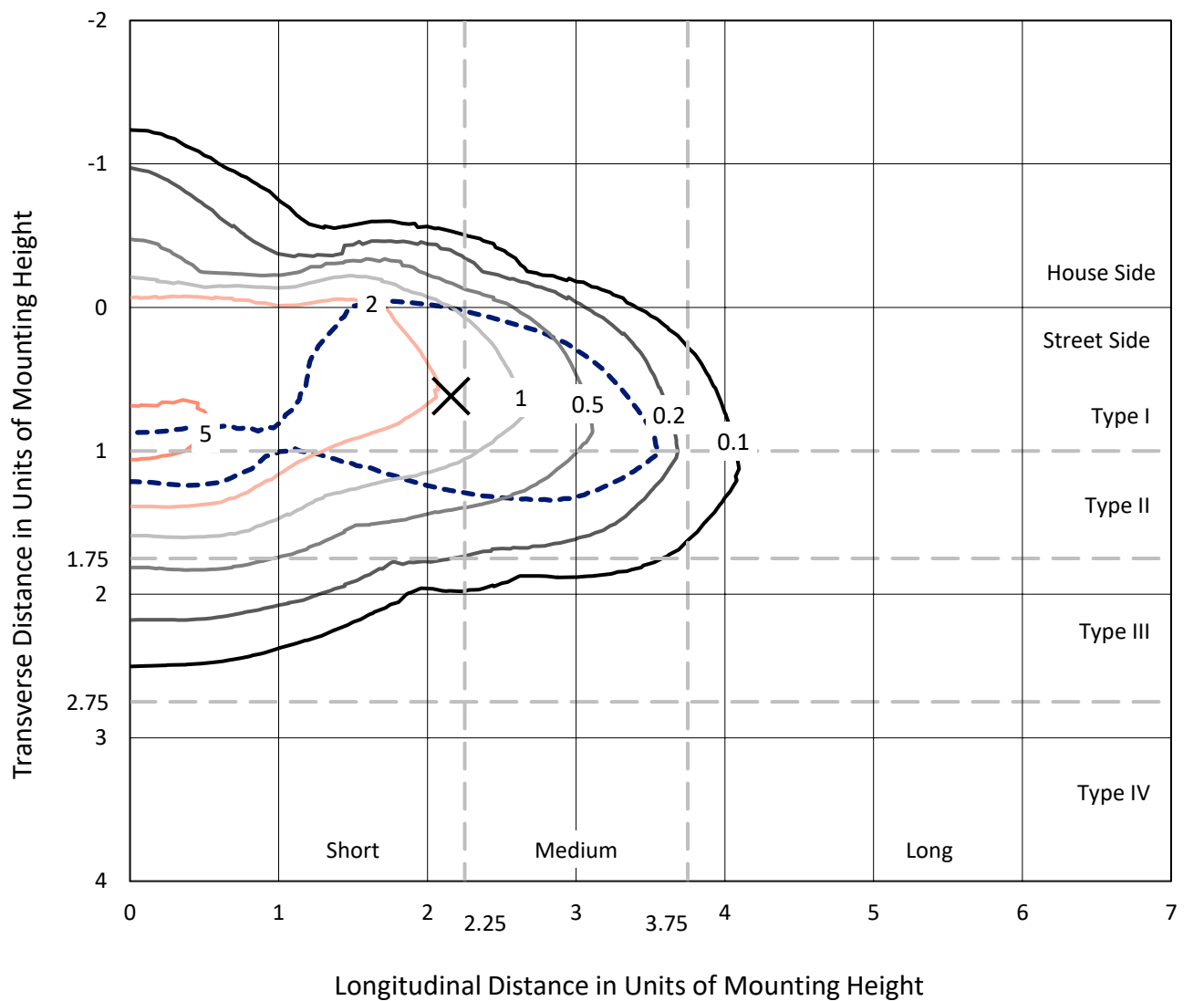
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Iso-Footcandle Lines of Horizontal Illumination

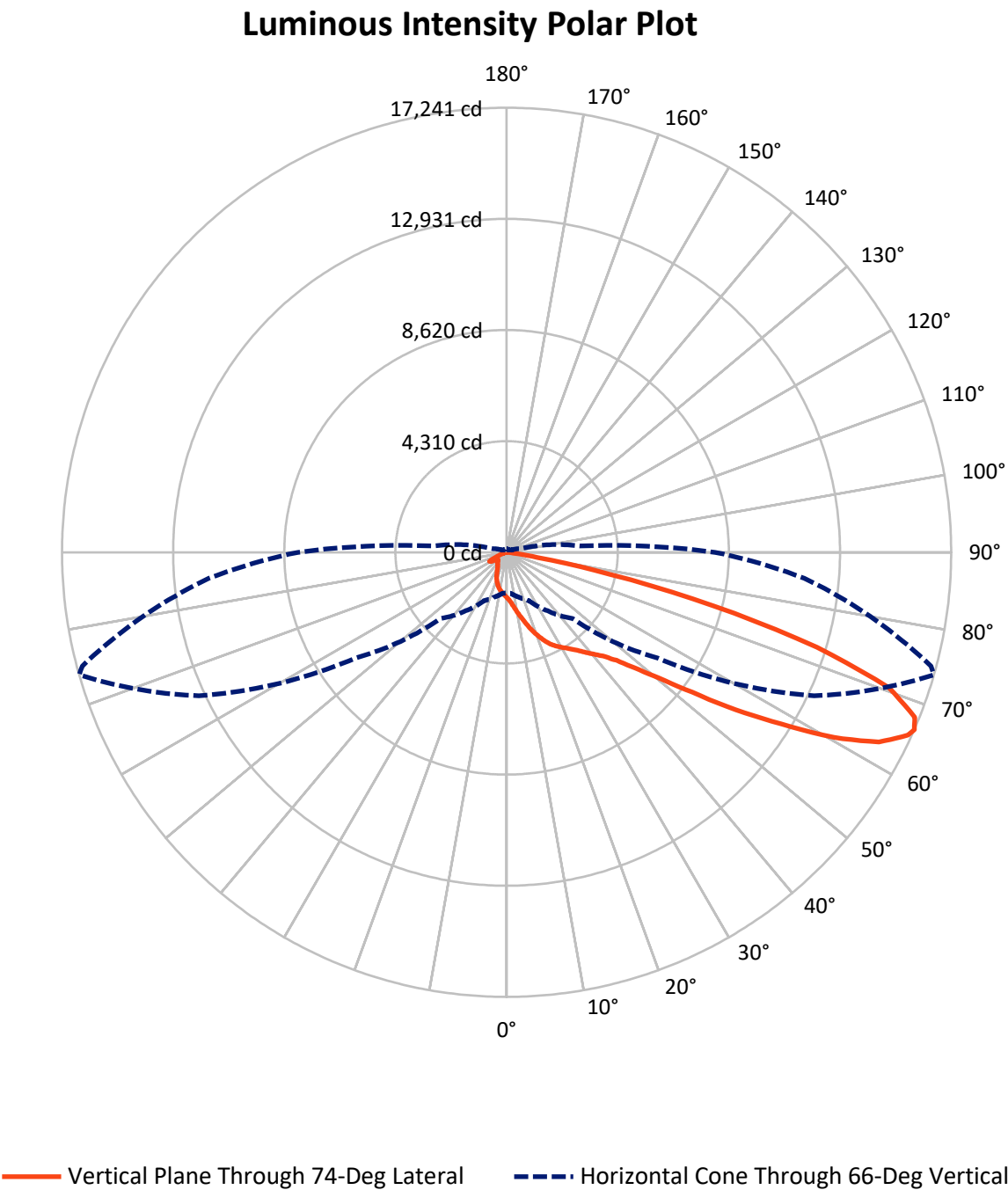
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1575.3	0.0	1575.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14493.7	0.0	14493.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	16069.0	0.0	16069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.1
10°-20°	548.9	3.4
20°-30°	1047.5	6.5
30°-40°	1836.0	11.4
40°-50°	3148.2	19.6
50°-60°	4094.5	25.5
60°-70°	3706.5	23.1
70°-80°	1430.2	8.9
80°-90°	86.1	0.5
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°	16069.0	100.0
0°-180°	16069.0	100.0

Coefficient of Utilization



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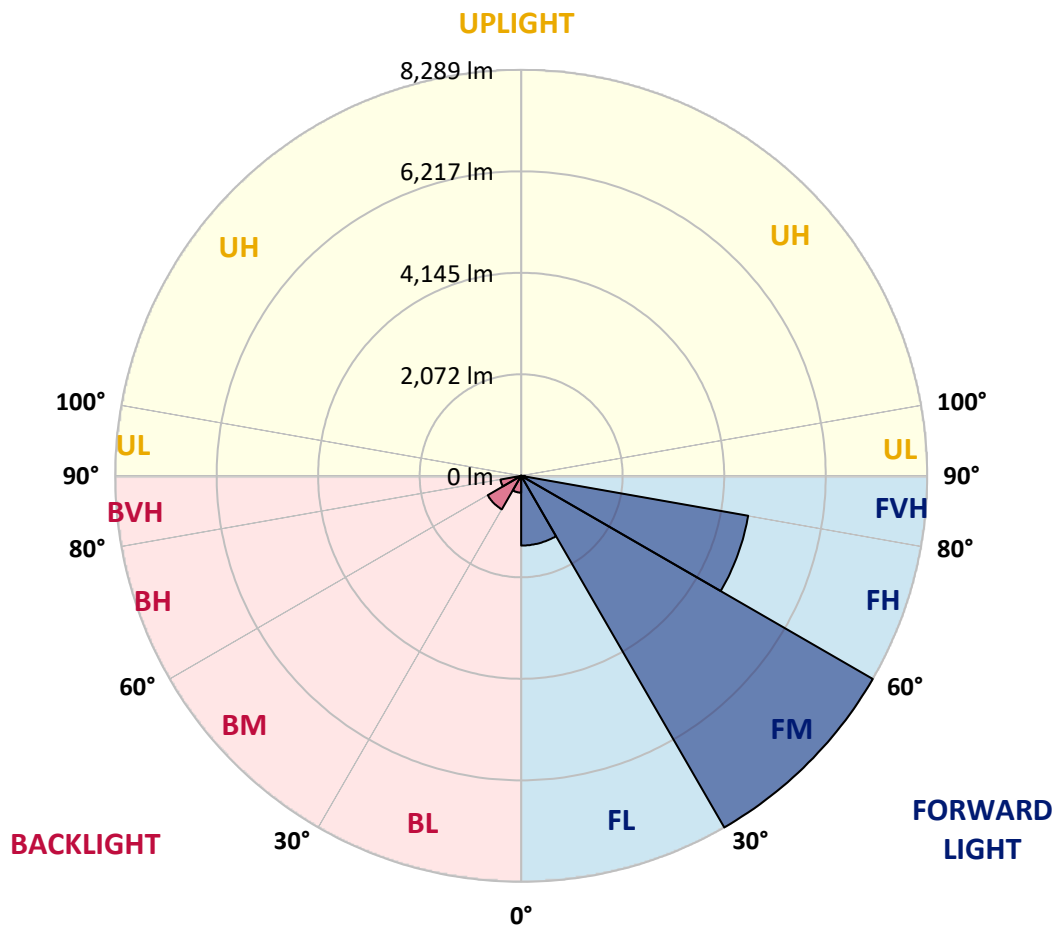
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1423.9	8.9			
FM	(30°-60°)	8289.2	51.6			
FH	(60°-80°)	4706.1	29.3			G2/5000
FVH	(80°-90°)	74.5	0.5			G1/100
BL	(0°-30°)	343.6	2.1	B1/500		
BM	(30°-60°)	789.5	4.9	B1/1000		
BH	(60°-80°)	430.6	2.7	B1/500		G1/500
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1
2.5°	2106.0	2088.7	2057.0	2054.1	2028.1	1996.4	1941.6	1883.9	1843.5	1837.7	1788.7
5°	2521.5	2512.8	2481.1	2460.9	2411.8	2336.8	2209.9	2083.0	1976.2	1964.7	1855.0
7.5°	2631.1	2636.9	2642.6	2662.8	2645.5	2610.9	2515.7	2336.8	2169.5	2143.5	1953.1
10°	2648.4	2642.6	2642.6	2668.6	2717.7	2766.7	2755.2	2602.3	2385.9	2354.1	2088.7
12.5°	2835.9	2844.6	2824.4	2812.9	2804.2	2830.2	2916.7	2850.4	2613.8	2587.8	2253.2
15°	3078.3	3075.4	3046.5	3046.5	3020.6	2977.3	3032.1	3081.2	2887.9	2856.1	2440.7
17.5°	3254.3	3265.8	3262.9	3280.2	3271.6	3213.9	3185.0	3286.0	3170.6	3130.2	2654.2
20°	3395.6	3427.4	3438.9	3493.7	3519.7	3479.3	3404.3	3467.8	3441.8	3404.3	2870.6
22.5°	3545.6	3571.6	3591.8	3687.0	3759.1	3750.5	3655.3	3640.8	3704.3	3669.7	3084.0
25°	3695.7	3707.2	3767.8	3883.2	3998.6	4027.4	3929.3	3816.8	3940.9	3909.2	3274.5
27.5°	3860.1	3865.9	3938.0	4079.4	4240.9	4301.5	4223.6	4015.9	4122.6	4122.6	3447.6
30°	4160.1	4217.8	4246.7	4373.6	4515.0	4598.7	4506.3	4226.5	4284.2	4310.2	3629.3
32.5°	4806.4	4815.0	4806.4	4861.2	4890.0	4939.1	4832.3	4463.1	4448.6	4477.5	3808.2
35°	5793.0	5758.4	5666.1	5585.3	5418.0	5325.7	5187.2	4766.0	4650.6	4691.0	3984.2
37.5°	6990.3	6941.3	6730.7	6482.6	6124.8	5755.5	5582.4	5135.3	4907.4	4959.3	4174.6
40°	8132.8	8101.0	7850.0	7544.2	6932.6	6300.8	5934.4	5446.8	5193.0	5213.2	4367.9
42.5°	9073.3	9067.5	8856.9	8536.7	7752.0	6889.3	6349.8	5752.7	5493.0	5524.7	4569.8
45°	9785.9	9731.1	9575.3	9344.5	8545.3	7501.0	6851.8	6217.1	5974.8	6012.3	4872.7
47.5°	9785.9	9794.5	9895.5	9872.4	9099.2	8075.1	7400.0	6802.8	6687.4	6722.0	5371.8
50°	8989.6	9070.4	9520.4	9898.4	9387.7	8522.2	7991.4	7535.6	7653.9	7705.8	6243.1
52.5°	7414.4	7550.0	8331.8	9194.4	9174.2	8747.3	8603.0	8467.4	8998.3	9090.6	7529.8
55°	5634.4	5723.8	6742.2	7876.0	8245.3	8562.6	9136.7	9650.3	10778.3	10758.1	8836.7
57.5°	4209.2	4292.9	5169.9	6427.7	6915.3	7763.5	9410.8	11003.3	12543.9	12621.8	10062.8
60°	3095.6	3159.1	3906.3	4939.1	5643.0	6540.3	9301.2	12336.2	14577.8	14488.4	11144.7
62.5°	2290.7	2325.3	2864.8	3537.0	4471.7	5328.6	8611.7	13247.8	16202.1	16020.3	11747.7
65°	1771.4	1782.9	2062.8	2420.5	3251.4	4142.8	7584.6	13386.3	17099.3	16906.0	11736.1
66°	1578.1	1586.7	1791.6	2068.5	2766.7	3626.4	7134.6	13164.2	17240.7	17035.8	11591.9
67.5°	1324.2	1318.4	1439.6	1621.4	2077.2	2798.4	6335.4	12515.1	17073.3	16969.5	11130.3
70°	980.9	983.8	1044.4	1087.6	1214.6	1549.2	4575.6	10856.2	15734.7	15728.9	9863.8
72.5°	727.0	735.7	781.8	790.5	758.8	839.5	2636.9	8634.8	12587.2	12590.1	7374.0
75°	545.3	559.7	574.1	579.9	551.0	530.8	1191.5	5810.4	8279.9	8219.3	4174.6
77.5°	415.4	421.2	432.7	424.1	418.3	366.4	496.2	2833.1	4088.0	3724.5	1353.1
80°	302.9	302.9	314.5	302.9	300.0	262.5	271.2	908.8	1200.2	998.2	291.4
82.5°	190.4	187.5	196.2	193.3	187.5	167.3	158.7	253.9	277.0	248.1	141.4
85°	106.7	103.9	101.0	98.1	89.4	75.0	86.5	95.2	126.9	129.8	101.0
87.5°	37.5	37.5	34.6	31.7	26.0	26.0	31.7	31.7	46.2	46.2	51.9
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°	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1	1754.1
2.5°	1765.6	1733.9	1687.7	1627.1	1583.9	1540.6	1494.4	1468.5	1431.0	1422.3	1433.8
5°	1797.3	1739.6	1624.2	1497.3	1387.7	1289.6	1197.3	1142.5	1087.6	1067.4	1076.1
7.5°	1863.7	1765.6	1569.4	1364.6	1182.8	1035.7	926.1	862.6	813.6	793.4	799.1
10°	1961.8	1811.8	1517.5	1214.6	980.9	825.1	732.8	692.4	663.5	652.0	654.9
12.5°	2080.1	1878.1	1451.1	1064.6	807.8	672.2	628.9	620.3	614.5	608.7	611.6
15°	2212.8	1935.8	1373.3	917.4	672.2	597.2	582.8	579.9	577.0	577.0	577.0
17.5°	2351.3	1987.8	1286.7	778.9	585.7	551.0	542.4	542.4	542.4	545.3	545.3
20°	2481.1	2028.1	1185.7	654.9	536.6	507.8	502.0	502.0	504.9	507.8	507.8
22.5°	2608.0	2045.5	1067.4	568.3	496.2	470.3	461.6	461.6	461.6	464.5	464.5
25°	2717.7	2045.5	949.2	513.5	461.6	435.6	424.1	421.2	424.1	424.1	424.1
27.5°	2810.0	2036.8	833.8	476.0	427.0	401.0	389.5	386.6	392.4	395.2	395.2
30°	2908.1	2025.3	741.4	441.4	398.1	372.2	360.6	360.6	369.3	380.8	380.8
32.5°	3003.3	2033.9	669.3	412.6	369.3	349.1	337.5	340.4	357.7	375.0	375.0
35°	3104.2	2051.2	626.0	392.4	349.1	328.9	320.2	328.9	346.2	363.5	363.5
37.5°	3205.2	2071.4	600.1	375.0	331.8	311.6	305.8	317.3	337.5	354.9	357.7
40°	3312.0	2088.7	571.2	357.7	320.2	297.2	294.3	305.8	331.8	349.1	352.0
42.5°	3444.7	2123.3	536.6	343.3	308.7	279.8	282.7	291.4	317.3	343.3	346.2
45°	3704.3	2233.0	502.0	328.9	294.3	271.2	265.4	271.2	300.0	328.9	334.7
47.5°	4191.9	2481.1	464.5	314.5	279.8	265.4	242.3	248.1	274.1	305.8	308.7
50°	5126.6	3009.0	444.3	300.0	268.3	245.2	219.3	219.3	239.5	268.3	268.3
52.5°	6583.5	3955.3	455.8	288.5	253.9	225.0	199.1	196.2	207.7	227.9	227.9
55°	8155.8	4993.9	499.1	277.0	236.6	213.5	184.6	170.2	178.9	190.4	190.4
57.5°	9402.2	5516.1	617.4	271.2	216.4	204.8	167.3	147.1	155.8	167.3	167.3
60°	9950.3	5210.3	750.1	277.0	201.9	190.4	150.0	129.8	144.2	155.8	158.7
62.5°	9506.0	4290.0	804.9	262.5	181.8	170.2	147.1	121.2	138.5	147.1	150.0
65°	8545.3	3260.0	628.9	227.9	167.3	147.1	132.7	115.4	129.8	138.5	138.5
66°	8089.5	2841.7	536.6	210.6	161.6	138.5	126.9	115.4	126.9	132.7	135.6
67.5°	7382.7	2241.6	398.1	184.6	150.0	126.9	118.3	109.6	121.2	126.9	126.9
70°	5772.9	1335.7	239.5	144.2	129.8	112.5	106.7	101.0	109.6	112.5	112.5
72.5°	3614.9	634.7	152.9	106.7	109.6	106.7	89.4	95.2	98.1	101.0	101.0
75°	1751.2	251.0	103.9	77.9	89.4	101.0	72.1	83.7	86.5	92.3	89.4
77.5°	487.6	121.2	66.4	57.7	77.9	77.9	54.8	66.4	77.9	98.1	89.4
80°	141.4	77.9	43.3	43.3	54.8	54.8	37.5	46.2	51.9	57.7	60.6
82.5°	98.1	51.9	28.8	31.7	31.7	34.6	23.1	23.1	28.8	28.8	31.7
85°	77.9	23.1	17.3	20.2	14.4	17.3	11.5	11.5	14.4	11.5	11.5
87.5°	31.7	11.5	11.5	11.5	8.7	8.7	5.8	2.9	2.9	2.9	2.9
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)