

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: P1211290

Luminaire Tested: **ARCH4-230-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22988 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 231.2
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

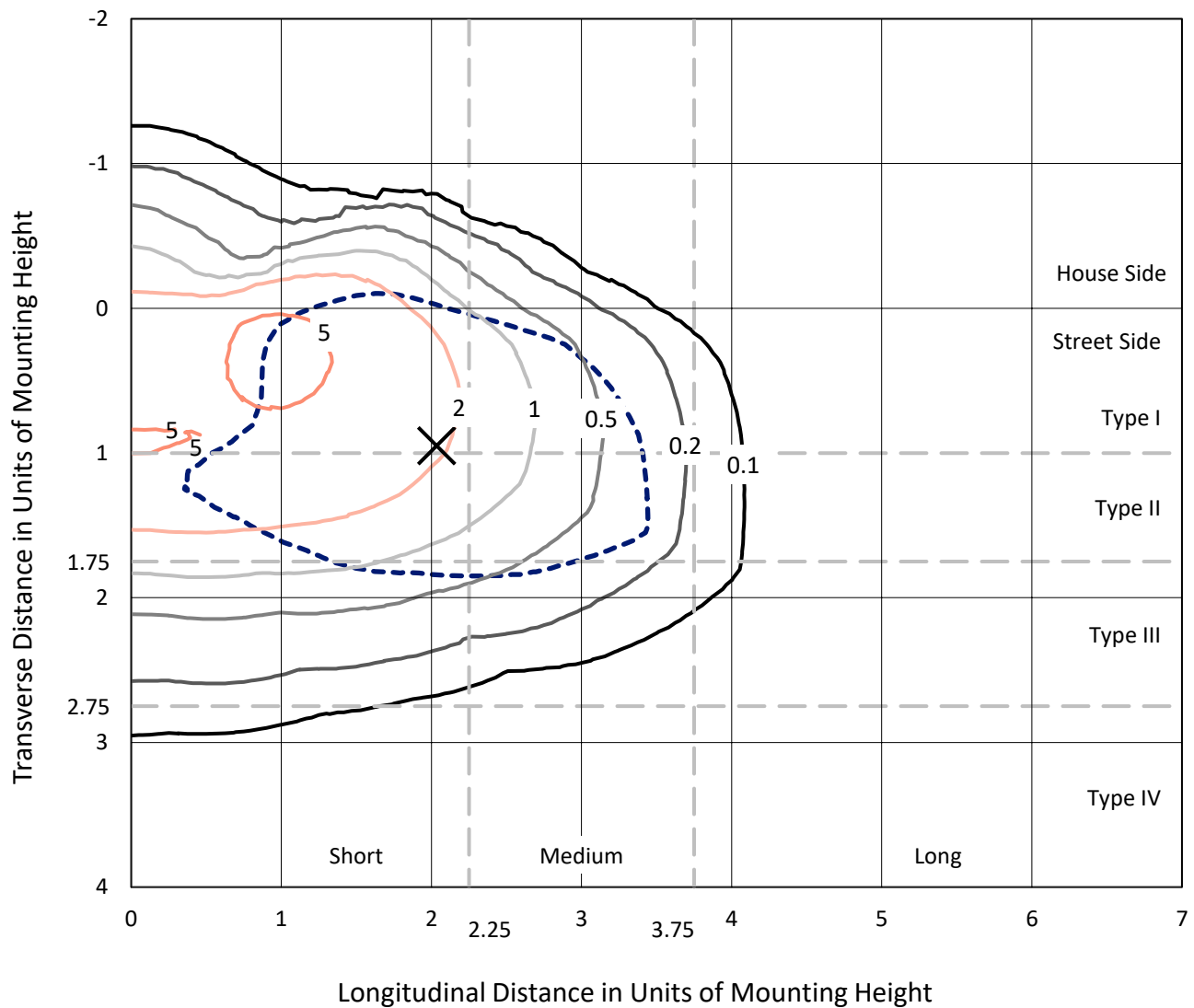


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Iso-Footcandle Lines of Horizontal Illumination

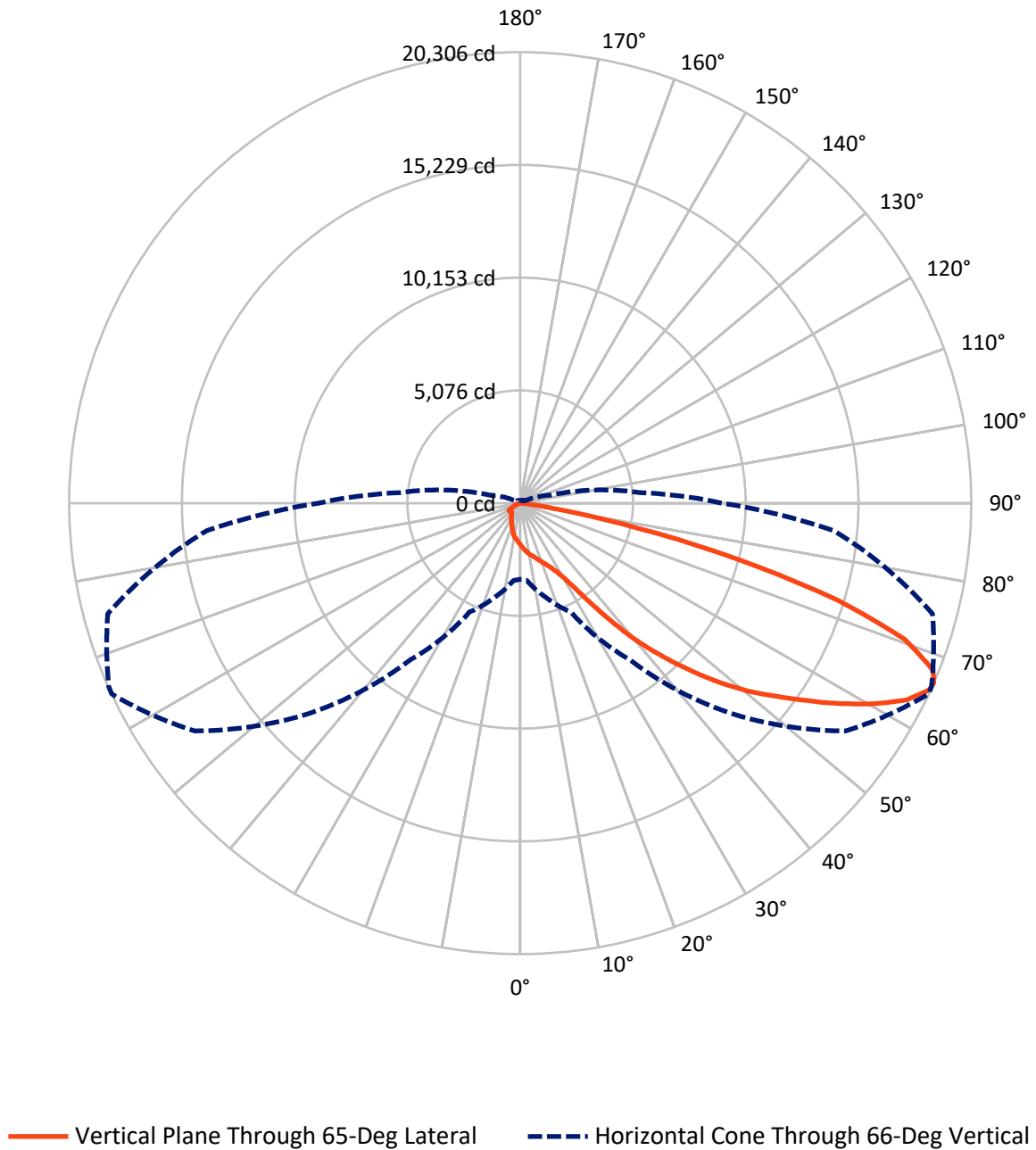
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2713.1	0.0	2713.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20274.9	0.0	20274.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	22988.0	0.0	22988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	0.8
10°-20°	525.6	2.3
20°-30°	962.0	4.2
30°-40°	1954.8	8.5
40°-50°	4128.0	18.0
50°-60°	6346.1	27.6
60°-70°	6387.8	27.8
70°-80°	2386.8	10.4
80°-90°	119.2	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°	22988.0	100.0
0°-180°	22988.0	100.0

Coefficient of Utilization



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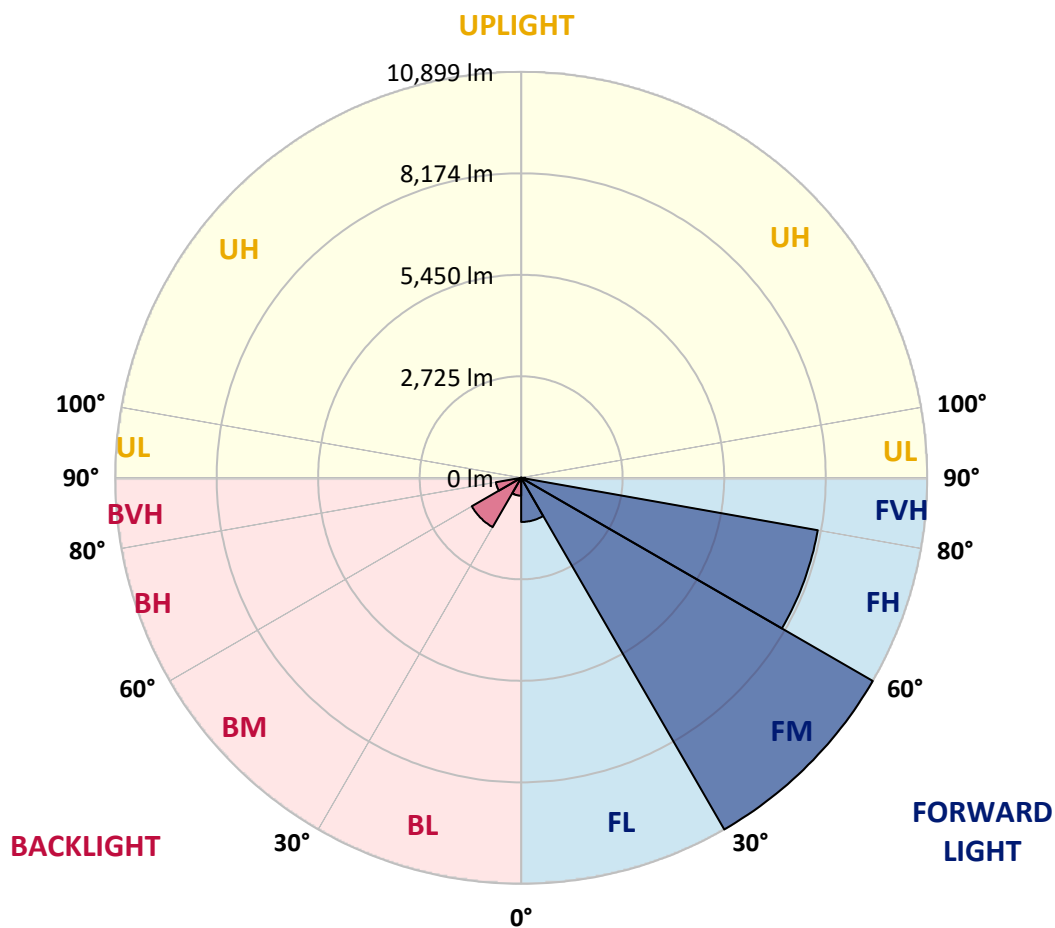
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1185.0	5.2			
FM	(30°-60°)	10899.3	47.4			
FH	(60°-80°)	8085.4	35.2			G4/12000
FVH	(80°-90°)	105.2	0.5			G2/225
BL	(0°-30°)	480.2	2.1	B1/500		
BM	(30°-60°)	1529.6	6.7	B2/2500		
BH	(60°-80°)	689.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9
2.5°	2135.7	2139.8	2131.5	2114.8	2098.1	2077.3	2043.9	1989.7	1981.3	1943.8	1902.1
5°	2281.7	2290.0	2277.5	2273.3	2265.0	2235.8	2189.9	2110.6	2102.3	2027.2	1931.3
7.5°	2331.7	2344.2	2335.9	2335.9	2335.9	2323.4	2302.5	2231.6	2219.1	2123.1	1977.2
10°	2369.2	2377.6	2373.4	2390.1	2402.6	2394.3	2381.8	2340.1	2327.5	2231.6	2039.7
12.5°	2427.6	2431.8	2436.0	2444.3	2465.2	2473.5	2469.4	2431.8	2423.5	2356.7	2119.0
15°	2481.9	2481.9	2486.0	2523.6	2552.8	2569.5	2573.6	2544.4	2536.1	2481.9	2219.1
17.5°	2531.9	2536.1	2548.6	2590.3	2640.4	2673.7	2694.6	2682.1	2669.6	2627.9	2335.9
20°	2607.0	2615.4	2627.9	2686.3	2736.3	2790.5	2832.3	2828.1	2823.9	2794.7	2473.5
22.5°	2736.3	2744.7	2765.5	2819.7	2869.8	2936.5	3007.4	3003.3	2990.8	2969.9	2636.2
25°	2932.4	2932.4	2944.9	2990.8	3053.3	3132.6	3199.3	3211.8	3199.3	3186.8	2840.6
27.5°	3178.5	3182.6	3182.6	3232.7	3291.1	3391.2	3474.6	3487.1	3487.1	3474.6	3115.9
30°	3520.5	3508.0	3499.6	3541.4	3603.9	3749.9	3895.9	3920.9	3908.4	3929.3	3503.8
32.5°	4108.6	4087.8	4016.9	4025.2	4062.8	4263.0	4509.1	4596.7	4592.5	4630.0	4129.5
35°	4922.0	4880.3	4776.0	4688.4	4684.3	4901.2	5276.6	5606.1	5601.9	5731.2	5080.5
37.5°	5839.7	5893.9	5697.9	5547.7	5501.8	5672.9	6156.7	6870.0	6907.5	7132.8	6327.7
40°	7066.0	7099.4	6849.1	6636.4	6419.5	6482.1	7120.3	8229.8	8296.5	8546.8	7574.9
42.5°	8133.9	8167.2	8021.2	7762.6	7487.3	7370.5	8092.2	9464.5	9518.7	9864.9	8859.7
45°	8859.7	8884.7	8934.7	8959.8	8646.9	8405.0	9281.0	10732.5	10799.3	11199.7	10115.2
47.5°	9426.9	9447.8	9547.9	9798.2	9735.6	9543.7	10490.6	12050.6	12067.3	12513.6	11337.4
50°	9689.7	9739.8	9985.9	10369.6	10644.9	10699.2	11804.5	13297.8	13343.7	13769.2	12492.8
52.5°	9397.7	9414.4	10035.9	10757.6	11312.3	11862.9	13122.6	14453.3	14586.7	14903.7	13531.4
55°	8413.3	8534.3	9477.0	10745.0	11837.9	12968.3	14532.5	15700.5	15821.4	16021.6	14444.9
57.5°	7270.4	7403.9	8551.0	10207.0	12063.2	13990.3	15838.1	17026.9	17110.3	17164.5	15283.3
60°	6281.8	6407.0	7587.4	9176.7	11837.9	14711.9	17051.9	18345.0	18415.9	18269.9	15704.6
62.5°	5068.0	5193.2	6382.0	7812.7	10953.6	14857.9	17952.9	19517.1	19546.3	19150.0	15446.0
65°	3820.8	3904.3	4897.0	6123.3	9406.1	14082.0	18157.3	20247.1	20217.9	19404.5	14670.2
66°	3424.6	3495.5	4371.4	5414.2	8601.0	13372.9	17882.0	20305.5	20276.3	19216.8	14161.3
67.5°	2953.2	2974.1	3695.7	4429.8	7195.3	11867.1	17043.6	20038.5	20063.5	18699.6	13231.1
70°	2306.7	2302.5	2719.6	3082.5	4913.7	8442.5	14215.5	18357.5	18478.5	16747.4	11283.1
72.5°	1476.6	1426.6	1668.5	1885.4	2861.5	4901.2	10365.5	14962.1	15166.5	13156.0	8405.0
75°	880.1	830.1	888.5	942.7	1372.3	2356.7	6094.1	10181.9	10378.0	8434.2	5001.3
77.5°	659.1	638.2	642.4	596.5	609.0	884.3	2782.2	5380.9	5522.7	3453.8	1897.9
80°	504.7	450.5	421.3	442.1	400.4	350.4	1034.5	1852.0	1939.6	817.6	396.3
82.5°	337.9	292.0	271.1	296.2	254.4	196.0	250.3	358.7	350.4	221.1	154.3
85°	175.2	150.2	150.2	150.2	129.3	95.9	108.5	146.0	146.0	116.8	91.8
87.5°	50.1	45.9	54.2	50.1	37.5	37.5	41.7	50.1	50.1	45.9	41.7
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°	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9	1872.9
2.5°	1868.7	1852.0	1806.1	1772.8	1739.4	1710.2	1676.8	1668.5	1651.8	1656.0	1647.6
5°	1881.2	1835.3	1756.1	1681.0	1622.6	1572.5	1510.0	1485.0	1451.6	1439.1	1430.7
7.5°	1897.9	1831.2	1714.4	1610.1	1510.0	1409.9	1309.8	1251.4	1213.8	1197.1	1184.6
10°	1935.4	1847.8	1693.5	1530.8	1359.8	1218.0	1117.9	1076.2	1051.1	1047.0	1042.8
12.5°	1985.5	1872.9	1672.7	1430.7	1205.5	1072.0	1009.4	996.9	992.7	992.7	988.6
15°	2060.6	1914.6	1639.3	1313.9	1084.5	992.7	963.6	942.7	934.4	934.4	934.4
17.5°	2135.7	1964.6	1589.2	1193.0	1001.1	942.7	913.5	901.0	892.6	896.8	892.6
20°	2231.6	2023.0	1522.5	1088.7	946.9	901.0	871.8	859.3	855.1	855.1	855.1
22.5°	2340.1	2089.8	1439.1	1009.4	901.0	859.3	830.1	817.6	809.2	813.4	813.4
25°	2486.0	2173.2	1351.5	930.2	855.1	817.6	784.2	767.5	767.5	771.7	775.8
27.5°	2673.7	2273.3	1263.9	880.1	813.4	775.8	738.3	721.6	725.8	734.1	734.1
30°	2949.0	2411.0	1176.3	825.9	767.5	725.8	692.4	675.7	684.1	700.8	700.8
32.5°	3341.1	2636.2	1101.2	763.3	700.8	654.9	621.5	609.0	629.9	663.2	663.2
35°	4041.9	3049.2	1055.3	700.8	629.9	575.6	533.9	521.4	550.6	592.3	592.3
37.5°	4980.4	3712.4	1072.0	646.5	571.5	508.9	463.0	446.3	467.2	504.7	517.2
40°	6027.4	4513.3	1218.0	600.7	517.2	454.7	408.8	392.1	404.6	421.3	425.5
42.5°	7074.4	5364.2	1493.3	567.3	475.5	408.8	367.1	354.6	362.9	367.1	371.2
45°	8117.2	6206.8	1839.5	546.4	438.0	371.2	329.5	329.5	333.7	333.7	333.7
47.5°	9105.8	7028.5	2202.4	542.3	404.6	333.7	300.3	304.5	304.5	308.7	308.7
50°	10040.1	7762.6	2569.5	554.8	375.4	300.3	275.3	275.3	275.3	279.5	275.3
52.5°	10820.1	8405.0	2953.2	575.6	346.2	275.3	250.3	250.3	250.3	254.4	250.3
55°	11558.4	8989.0	3345.3	604.8	321.2	254.4	229.4	221.1	221.1	225.2	221.1
57.5°	12159.1	9376.9	3716.6	609.0	300.3	233.6	212.7	200.2	200.2	200.2	200.2
60°	12184.1	9151.6	3825.0	533.9	275.3	212.7	191.9	175.2	179.4	179.4	179.4
62.5°	11387.4	7967.0	3074.2	400.4	246.1	191.9	175.2	158.5	158.5	158.5	158.5
65°	9823.2	6198.4	1802.0	317.0	212.7	171.0	154.3	141.8	141.8	141.8	137.7
66°	9089.1	5435.1	1380.7	287.8	200.2	166.8	150.2	137.7	133.5	129.3	129.3
67.5°	7891.9	4296.4	863.4	254.4	183.5	154.3	137.7	125.1	121.0	116.8	116.8
70°	5944.0	2728.0	421.3	196.0	158.5	133.5	121.0	108.5	104.3	100.1	95.9
72.5°	4171.2	1597.6	221.1	150.2	129.3	116.8	104.3	91.8	87.6	83.4	83.4
75°	2356.7	771.7	146.0	108.5	104.3	95.9	87.6	75.1	70.9	70.9	70.9
77.5°	892.6	267.0	100.1	79.3	83.4	75.1	62.6	62.6	58.4	62.6	58.4
80°	233.6	116.8	62.6	58.4	62.6	54.2	45.9	50.1	50.1	50.1	50.1
82.5°	125.1	66.7	37.5	41.7	37.5	37.5	29.2	33.4	37.5	33.4	37.5
85°	87.6	33.4	20.9	20.9	16.7	16.7	12.5	16.7	20.9	16.7	16.7
87.5°	45.9	12.5	12.5	12.5	12.5	8.3	4.2	0.0	4.2	4.2	4.2
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)