

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: P1211454

Luminaire Tested: **ARCH4-280-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211454
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: ARCH4-280-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1085mA 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: 27451 lumens
Efficiency: N/A
Efficacy: 98.1 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): 279.7
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

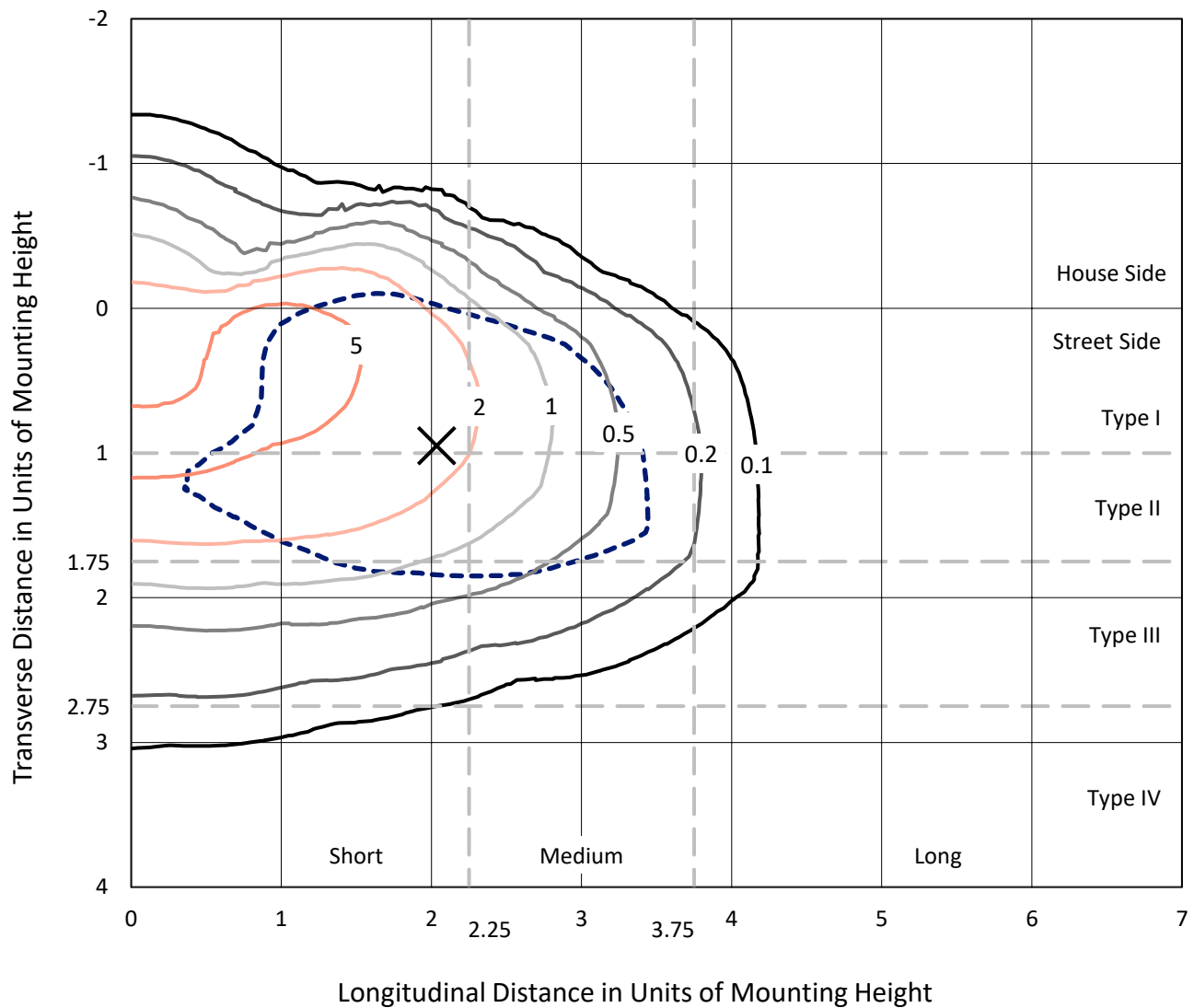


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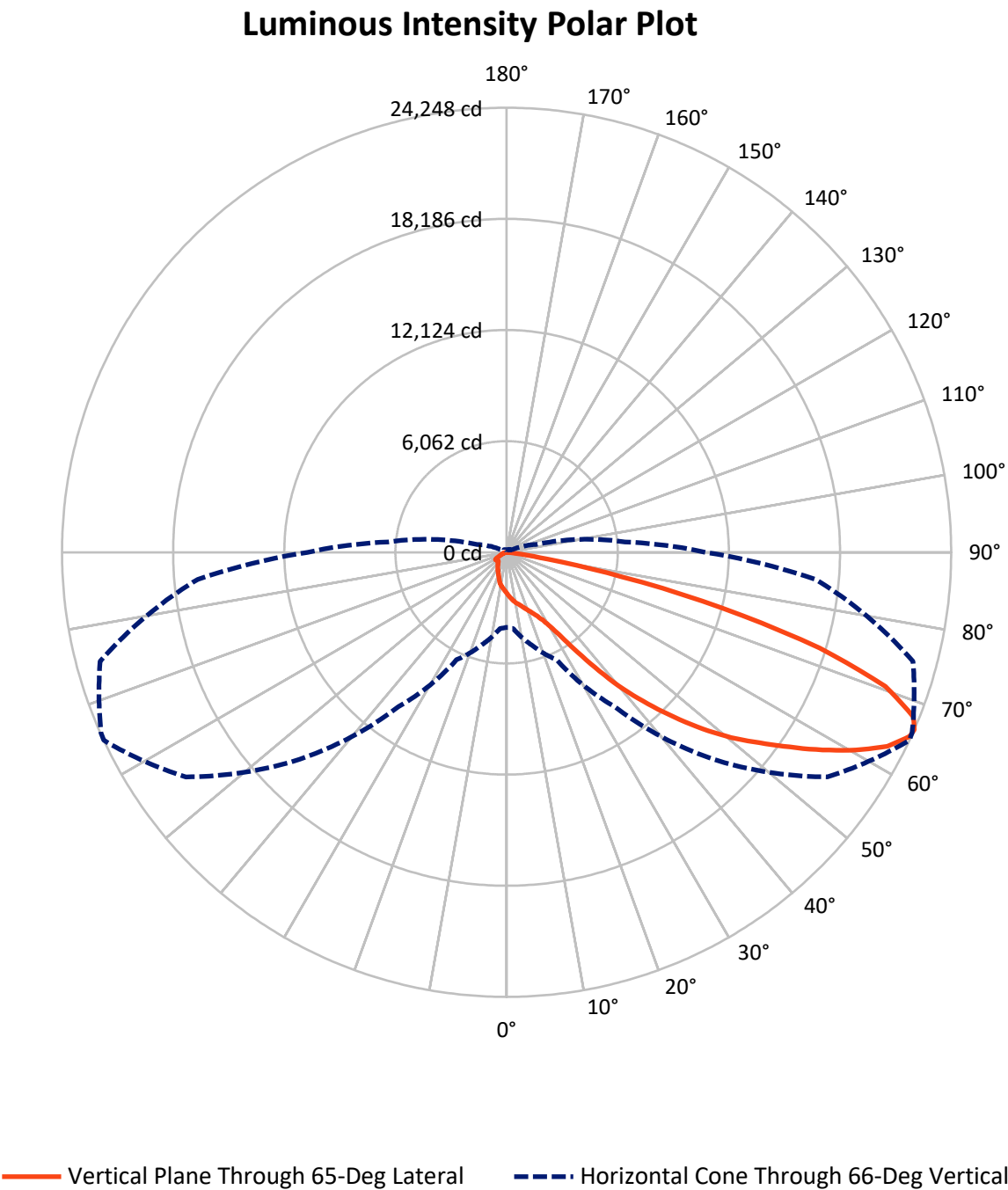
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.8	0.0	3239.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24211.2	0.0	24211.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	27451.0	0.0	27451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	0.8
10°-20°	627.6	2.3
20°-30°	1148.8	4.2
30°-40°	2334.3	8.5
40°-50°	4929.4	18.0
50°-60°	7578.2	27.6
60°-70°	7628.0	27.8
70°-80°	2850.2	10.4
80°-90°	142.4	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°	27451.0	100.0
0°-180°	27451.0	100.0

Coefficient of Utilization



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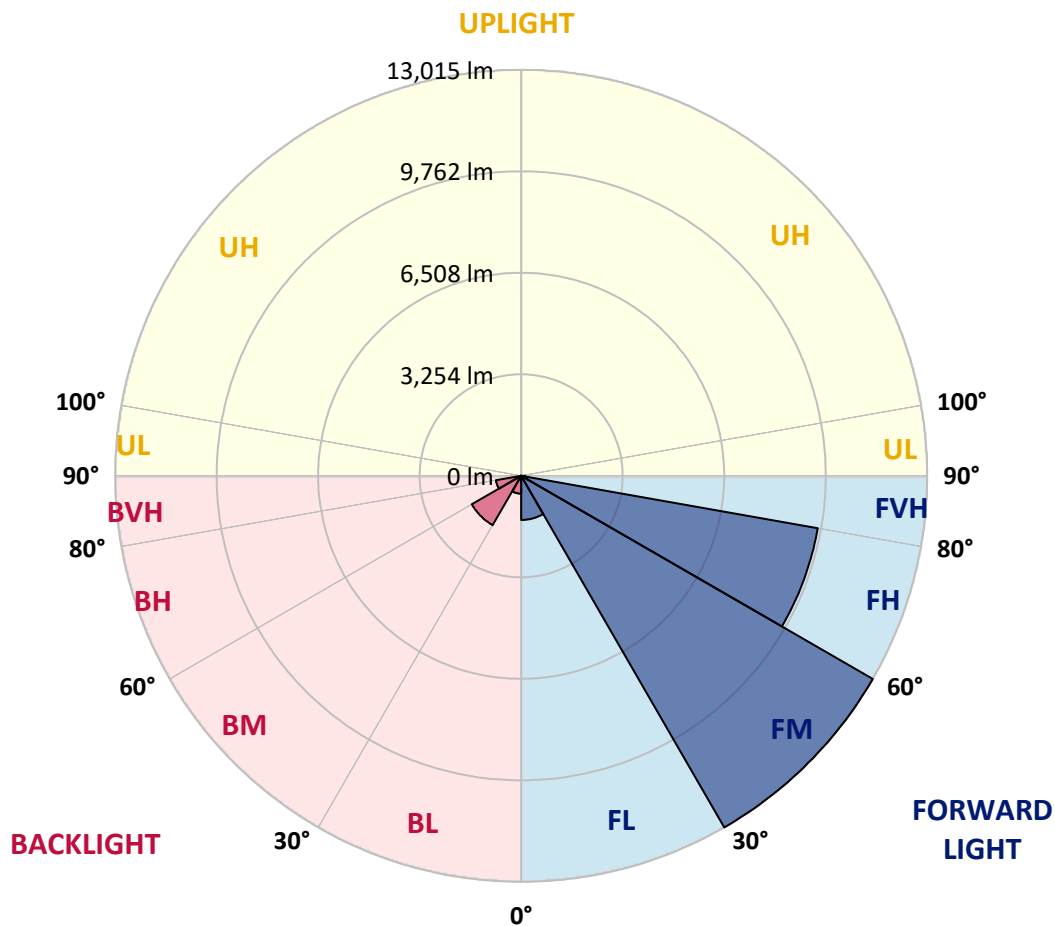
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1415.1	5.2			
FM	(30°-60°)	13015.3	47.4			
FH	(60°-80°)	9655.2	35.2			G4/12000
FVH	(80°-90°)	125.6	0.5			G2/225
BL	(0°-30°)	573.4	2.1	B2/1000		
BM	(30°-60°)	1826.6	6.7	B2/2500		
BH	(60°-80°)	823.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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°	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5
2.5°	2550.3	2555.3	2545.3	2525.4	2505.5	2480.6	2440.7	2376.0	2366.0	2321.2	2271.4
5°	2724.6	2734.6	2719.6	2714.7	2704.7	2669.8	2615.0	2520.4	2510.4	2420.8	2306.2
7.5°	2784.4	2799.3	2789.4	2789.4	2789.4	2774.4	2749.5	2664.9	2649.9	2535.3	2361.0
10°	2829.2	2839.2	2834.2	2854.1	2869.1	2859.1	2844.2	2794.4	2779.4	2664.9	2435.7
12.5°	2899.0	2903.9	2908.9	2918.9	2943.8	2953.8	2948.8	2903.9	2894.0	2814.3	2530.4
15°	2963.7	2963.7	2968.7	3013.5	3048.4	3068.3	3073.3	3038.4	3028.5	2963.7	2649.9
17.5°	3023.5	3028.5	3043.4	3093.2	3153.0	3192.8	3217.7	3202.8	3187.9	3138.1	2789.4
20°	3113.1	3123.1	3138.1	3207.8	3267.6	3332.3	3382.1	3377.1	3372.2	3337.3	2953.8
22.5°	3267.6	3277.5	3302.4	3367.2	3427.0	3506.6	3591.3	3586.3	3571.4	3546.5	3148.0
25°	3501.7	3501.7	3516.6	3571.4	3646.1	3740.8	3820.5	3835.4	3820.5	3805.5	3392.1
27.5°	3795.5	3800.5	3800.5	3860.3	3930.0	4049.6	4149.2	4164.1	4164.1	4149.2	3720.8
30°	4204.0	4189.0	4179.1	4228.9	4303.6	4477.9	4652.3	4682.2	4667.2	4692.1	4184.1
32.5°	4906.3	4881.4	4796.7	4806.7	4851.5	5090.6	5384.5	5489.1	5484.1	5528.9	4931.2
35°	5877.6	5827.8	5703.3	5598.7	5593.7	5852.7	6301.0	6694.5	6689.5	6843.9	6066.9
37.5°	6973.4	7038.2	6804.1	6624.8	6570.0	6774.2	7352.0	8203.8	8248.6	8517.6	7556.2
40°	8437.9	8477.7	8178.9	7924.8	7665.8	7740.5	8502.6	9827.6	9907.3	10206.1	9045.6
42.5°	9713.0	9752.9	9578.5	9269.7	8941.0	8801.5	9663.2	11302.0	11366.7	11780.1	10579.7
45°	10579.7	10609.6	10669.4	10699.3	10325.7	10036.8	11082.8	12816.2	12895.9	13374.1	12079.0
47.5°	11257.1	11282.0	11401.6	11700.4	11625.7	11396.6	12527.3	14390.2	14410.1	14943.1	13538.4
50°	11570.9	11630.7	11924.6	12382.8	12711.6	12776.4	14096.3	15879.5	15934.3	16442.4	14918.2
52.5°	11222.3	11242.2	11984.4	12846.1	13508.6	14166.1	15670.3	17259.3	17418.7	17797.2	16158.5
55°	10046.7	10191.2	11316.9	12831.1	14136.2	15486.0	17353.9	18748.6	18893.1	19132.2	17249.3
57.5°	8681.9	8841.3	10211.1	12188.6	14405.1	16706.4	18913.0	20332.6	20432.2	20497.0	18250.5
60°	7501.4	7650.9	9060.5	10958.3	14136.2	17568.1	20362.5	21906.6	21991.3	21816.9	18753.6
62.5°	6052.0	6201.4	7621.0	9329.5	13080.2	17742.4	21438.4	23306.3	23341.1	22867.9	18444.8
65°	4562.6	4662.2	5847.7	7312.2	11232.2	16816.0	21682.4	24177.9	24143.1	23171.8	17518.3
66°	4089.4	4174.1	5220.1	6465.4	10270.9	15969.2	21353.7	24247.7	24212.8	22947.6	16910.6
67.5°	3526.6	3551.5	4413.2	5289.9	8592.3	14171.0	20352.5	23928.9	23958.8	22330.0	15799.8
70°	2754.5	2749.5	3247.6	3681.0	5867.7	10081.6	16975.4	21921.5	22066.0	19998.9	13473.7
72.5°	1763.3	1703.5	1992.4	2251.4	3417.0	5852.7	12377.9	17867.0	18111.0	15710.2	10036.8
75°	1051.0	991.2	1061.0	1125.7	1638.8	2814.3	7277.3	12158.7	12392.8	10071.7	5972.3
77.5°	787.0	762.1	767.1	712.3	727.2	1056.0	3322.3	6425.5	6594.9	4124.3	2266.4
80°	602.7	538.0	503.1	528.0	478.2	418.4	1235.3	2211.6	2316.2	976.3	473.2
82.5°	403.5	348.7	323.8	353.7	303.8	234.1	298.9	428.4	418.4	264.0	184.3
85°	209.2	179.3	179.3	179.3	154.4	114.6	129.5	174.3	174.3	139.5	109.6
87.5°	59.8	54.8	64.8	59.8	44.8	44.8	49.8	59.8	59.8	54.8	49.8
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°	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5	2236.5
2.5°	2231.5	2211.6	2156.8	2116.9	2077.1	2042.2	2002.4	1992.4	1972.5	1977.5	1967.5
5°	2246.4	2191.7	2097.0	2007.4	1937.6	1877.8	1803.1	1773.2	1733.4	1718.5	1708.5
7.5°	2266.4	2186.7	2047.2	1922.7	1803.1	1683.6	1564.0	1494.3	1449.5	1429.6	1414.6
10°	2311.2	2206.6	2022.3	1828.0	1623.8	1454.5	1334.9	1285.1	1255.2	1250.2	1245.3
12.5°	2371.0	2236.5	1997.4	1708.5	1439.5	1280.1	1205.4	1190.5	1185.5	1185.5	1180.5
15°	2460.6	2286.3	1957.5	1569.0	1295.1	1185.5	1150.6	1125.7	1115.8	1115.8	1115.8
17.5°	2550.3	2346.1	1897.8	1424.6	1195.4	1125.7	1090.8	1075.9	1065.9	1070.9	1065.9
20°	2664.9	2415.8	1818.1	1300.0	1130.7	1075.9	1041.0	1026.1	1021.1	1021.1	1021.1
22.5°	2794.4	2495.5	1718.5	1205.4	1075.9	1026.1	991.2	976.3	966.3	971.3	971.3
25°	2968.7	2595.1	1613.9	1110.8	1021.1	976.3	936.4	916.5	916.5	921.5	926.5
27.5°	3192.8	2714.7	1509.3	1051.0	971.3	926.5	881.6	861.7	866.7	876.7	876.7
30°	3521.6	2879.0	1404.7	986.2	916.5	866.7	826.9	806.9	816.9	836.8	836.8
32.5°	3989.8	3148.0	1315.0	911.5	836.8	782.0	742.2	727.2	752.1	792.0	792.0
35°	4826.6	3641.1	1260.2	836.8	752.1	687.4	637.6	622.6	657.5	707.3	707.3
37.5°	5947.4	4433.1	1280.1	772.1	682.4	607.7	552.9	533.0	557.9	602.7	617.6
40°	7197.6	5389.5	1454.5	717.3	617.6	542.9	488.1	468.2	483.2	503.1	508.1
42.5°	8447.8	6405.6	1783.2	677.4	567.8	488.1	438.3	423.4	433.3	438.3	443.3
45°	9693.1	7411.8	2196.6	652.5	523.0	443.3	393.5	393.5	398.5	398.5	398.5
47.5°	10873.6	8393.0	2630.0	647.5	483.2	398.5	358.6	363.6	363.6	368.6	368.6
50°	11989.3	9269.7	3068.3	662.5	448.3	358.6	328.7	328.7	328.7	333.7	328.7
52.5°	12920.8	10036.8	3526.6	687.4	413.4	328.7	298.9	298.9	298.9	303.8	298.9
55°	13802.4	10734.1	3994.8	722.2	383.5	303.8	274.0	264.0	264.0	269.0	264.0
57.5°	14519.7	11197.4	4438.1	727.2	358.6	278.9	254.0	239.1	239.1	239.1	239.1
60°	14549.6	10928.4	4567.6	637.6	328.7	254.0	229.1	209.2	214.2	214.2	214.2
62.5°	13598.2	9513.8	3671.0	478.2	293.9	229.1	209.2	189.3	189.3	189.3	189.3
65°	11730.3	7401.8	2151.8	378.6	254.0	204.2	184.3	169.4	169.4	169.4	164.4
66°	10853.7	6490.3	1648.7	343.7	239.1	199.2	179.3	164.4	159.4	154.4	154.4
67.5°	9424.1	5130.5	1031.1	303.8	219.2	184.3	164.4	149.4	144.4	139.5	139.5
70°	7098.0	3257.6	503.1	234.1	189.3	159.4	144.4	129.5	124.5	119.5	114.6
72.5°	4981.0	1907.7	264.0	179.3	154.4	139.5	124.5	109.6	104.6	99.6	99.6
75°	2814.3	921.5	174.3	129.5	124.5	114.6	104.6	89.7	84.7	84.7	84.7
77.5°	1065.9	318.8	119.5	94.6	99.6	89.7	74.7	74.7	69.7	74.7	69.7
80°	278.9	139.5	74.7	69.7	74.7	64.8	54.8	59.8	59.8	59.8	59.8
82.5°	149.4	79.7	44.8	49.8	44.8	44.8	34.9	39.8	44.8	39.8	44.8
85°	104.6	39.8	24.9	24.9	19.9	19.9	14.9	19.9	24.9	19.9	19.9
87.5°	54.8	14.9	14.9	14.9	14.9	10.0	5.0	0.0	5.0	5.0	5.0
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)