

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: P1211434

Luminaire Tested: **ARCH4-270-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211434
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: ARCH4-270-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1045mA 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: 27740 lumens
Efficiency: N/A
Efficacy: 103.1 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): 269
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



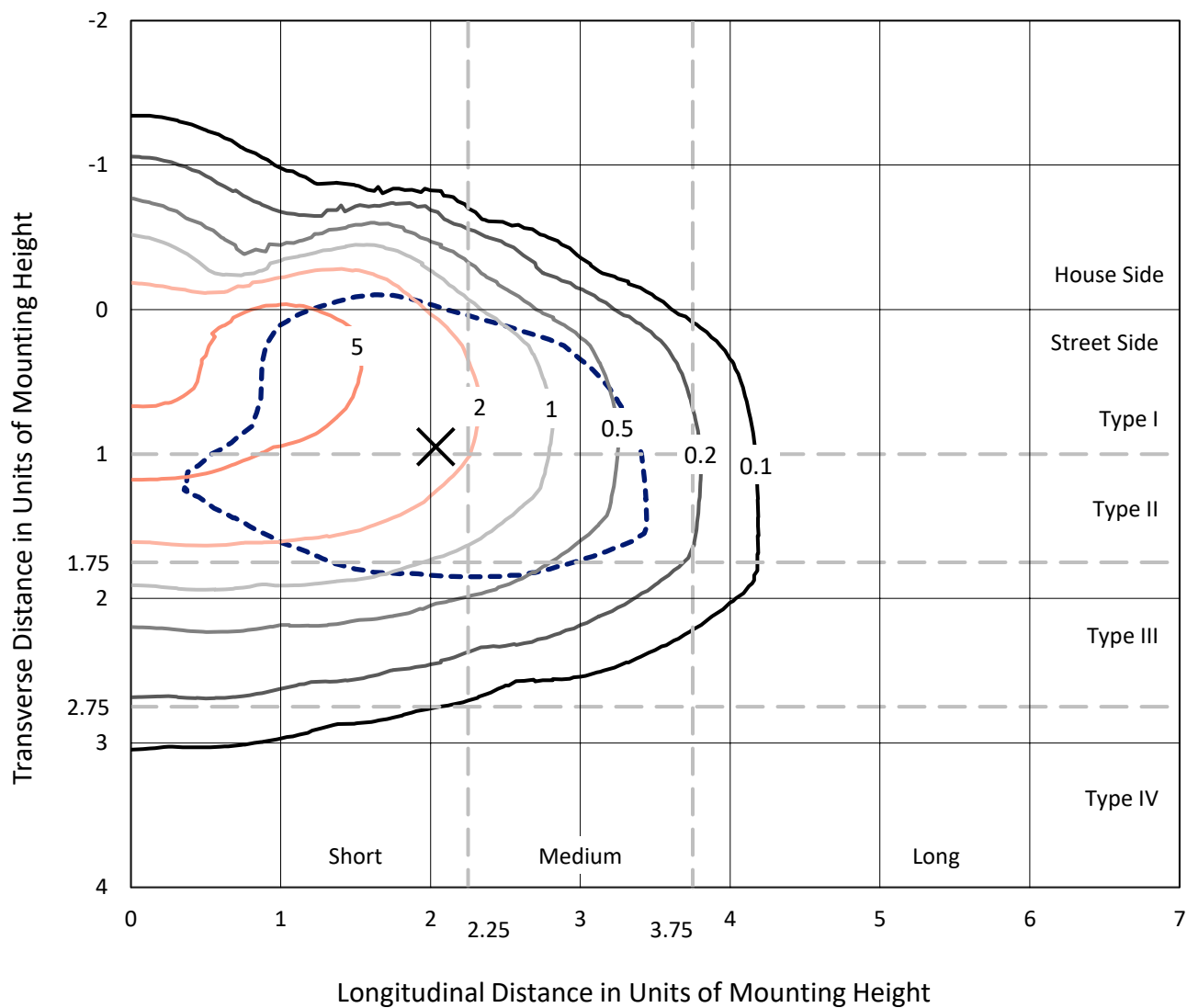
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Iso-Footcandle Lines of Horizontal Illumination

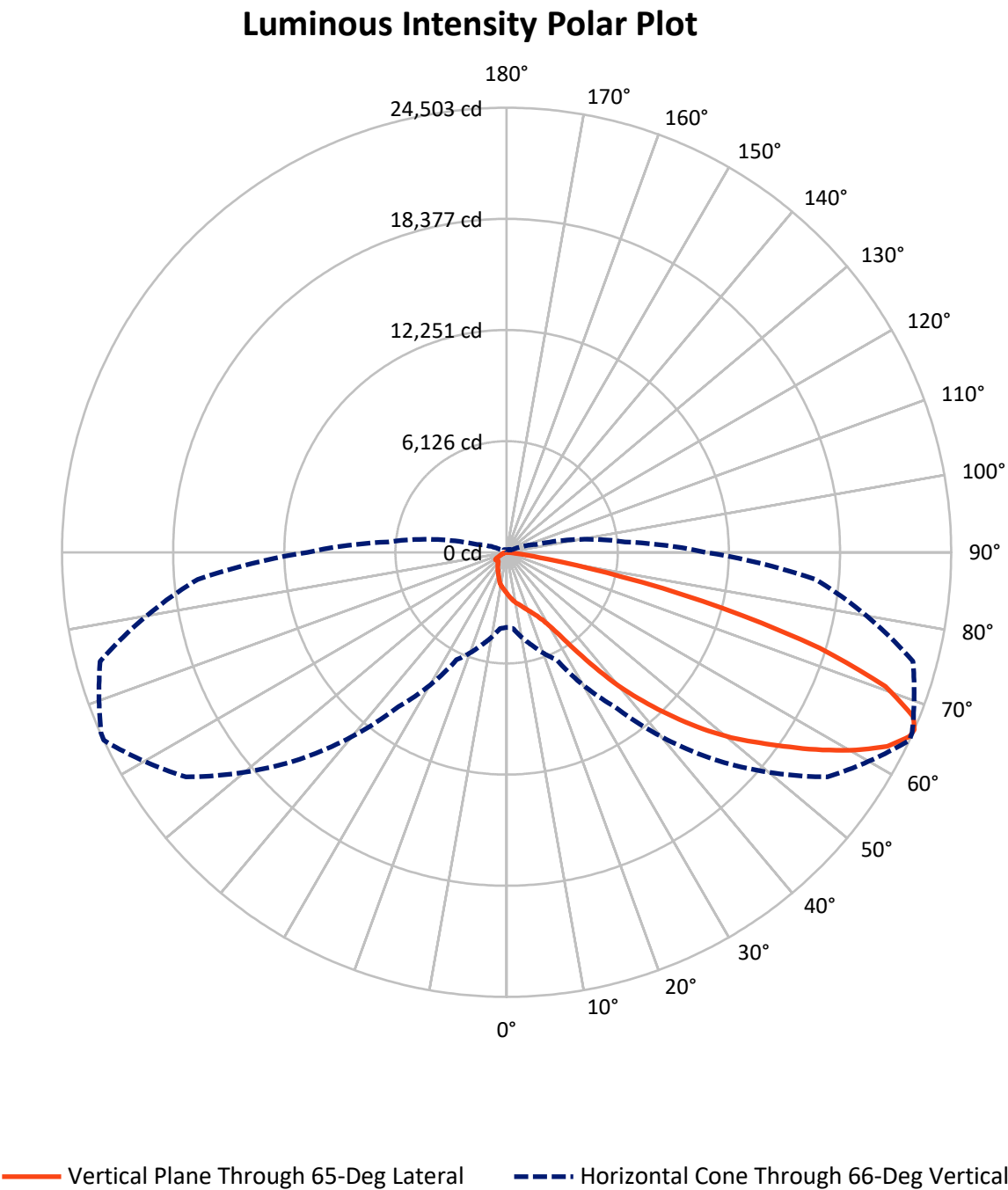
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3273.9	0.0	3273.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24466.1	0.0	24466.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	27740.0	0.0	27740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	0.8
10°-20°	634.3	2.3
20°-30°	1160.9	4.2
30°-40°	2358.9	8.5
40°-50°	4981.3	18.0
50°-60°	7657.9	27.6
60°-70°	7708.3	27.8
70°-80°	2880.2	10.4
80°-90°	143.9	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°	27740.0	100.0
0°-180°	27740.0	100.0

Coefficient of Utilization



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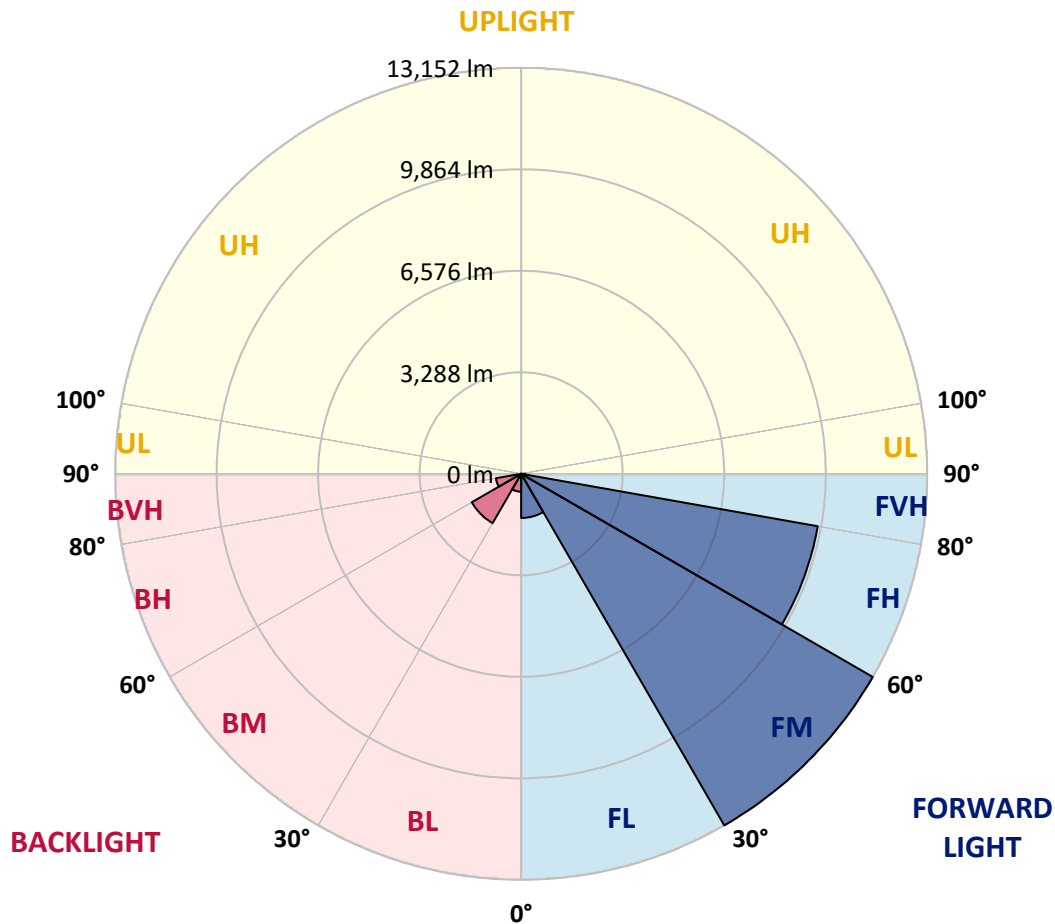
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1430.0	5.2			
FM	(30°-60°)	13152.4	47.4			
FH	(60°-80°)	9756.8	35.2			G4/12000
FVH	(80°-90°)	127.0	0.5			G2/225
BL	(0°-30°)	579.5	2.1	B2/1000		
BM	(30°-60°)	1845.8	6.7	B2/2500		
BH	(60°-80°)	831.7	3.0	B2/1000		G2/1000
BVH	(80°-90°)	16.9	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°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2577.1	2582.2	2572.1	2552.0	2531.8	2506.7	2466.4	2401.0	2390.9	2345.6	2295.3
5°	2753.3	2763.4	2748.3	2743.2	2733.2	2697.9	2642.6	2546.9	2536.9	2446.3	2330.5
7.5°	2813.7	2828.8	2818.7	2818.7	2818.7	2803.6	2778.5	2692.9	2677.8	2562.0	2385.9
10°	2859.0	2869.1	2864.0	2884.2	2899.3	2889.2	2874.1	2823.8	2808.7	2692.9	2461.4
12.5°	2929.5	2934.5	2939.5	2949.6	2974.8	2984.8	2979.8	2934.5	2924.4	2843.9	2557.0
15°	2994.9	2994.9	3000.0	3045.3	3080.5	3100.6	3105.7	3070.4	3060.4	2994.9	2677.8
17.5°	3055.3	3060.4	3075.5	3125.8	3186.2	3226.5	3251.6	3236.5	3221.4	3171.1	2818.7
20°	3145.9	3156.0	3171.1	3241.6	3302.0	3367.4	3417.7	3412.7	3407.7	3372.4	2984.8
22.5°	3302.0	3312.0	3337.2	3402.6	3463.0	3543.6	3629.1	3624.1	3609.0	3583.8	3181.2
25°	3538.5	3538.5	3553.6	3609.0	3684.5	3780.1	3860.7	3875.8	3860.7	3845.6	3427.8
27.5°	3835.5	3840.5	3840.5	3900.9	3971.4	4092.2	4192.9	4208.0	4208.0	4192.9	3760.0
30°	4248.3	4233.2	4223.1	4273.4	4348.9	4525.1	4701.3	4731.5	4716.4	4741.5	4228.1
32.5°	4958.0	4932.8	4847.2	4857.3	4902.6	5144.2	5441.2	5546.9	5541.9	5587.2	4983.1
35°	5939.5	5889.2	5763.3	5657.6	5652.6	5914.3	6367.3	6765.0	6760.0	6916.0	6130.8
37.5°	7046.9	7112.3	6875.7	6694.5	6639.2	6845.5	7429.4	8290.1	8335.4	8607.2	7635.8
40°	8526.7	8567.0	8265.0	8008.3	7746.5	7822.0	8592.1	9931.0	10011.6	10313.6	9140.8
42.5°	9815.3	9855.5	9679.4	9367.3	9035.1	8894.1	9764.9	11421.0	11486.4	11904.2	10691.1
45°	10691.1	10721.3	10781.7	10811.9	10434.4	10142.4	11199.5	12951.1	13031.7	13514.9	12206.2
47.5°	11375.6	11400.8	11521.6	11823.6	11748.1	11516.6	12659.2	14541.7	14561.8	15100.4	13681.0
50°	11692.8	11753.2	12050.1	12513.2	12845.4	12910.9	14244.7	16046.7	16102.1	16615.5	15075.3
52.5°	11340.4	11360.5	12110.5	12981.3	13650.8	14315.2	15835.3	17441.0	17602.1	17984.6	16328.6
55°	10152.5	10298.5	11436.1	12966.2	14285.0	15649.1	17536.6	18946.0	19092.0	19333.6	17430.9
57.5°	8773.3	8934.4	10318.6	12316.9	14556.8	16882.3	19112.1	20546.6	20647.3	20712.7	18442.6
60°	7580.4	7731.4	9155.9	11073.6	14285.0	17753.1	20576.8	22137.2	22222.8	22046.6	18951.0
62.5°	6115.7	6266.7	7701.2	9427.7	13217.9	17929.2	21664.1	23551.6	23586.9	23108.7	18639.0
65°	4610.7	4711.3	5909.3	7389.1	11350.5	16993.0	21910.7	24432.5	24397.2	23415.7	17702.7
66°	4132.5	4218.1	5275.1	6533.4	10379.0	16137.3	21578.5	24502.9	24467.7	23189.2	17088.6
67.5°	3563.7	3588.9	4459.7	5345.5	8682.7	14320.2	20566.8	24180.8	24211.0	22565.1	15966.2
70°	2783.5	2778.5	3281.8	3719.7	5929.4	10187.7	17154.1	22152.3	22298.3	20209.4	13615.5
72.5°	1781.8	1721.4	2013.4	2275.1	3453.0	5914.3	12508.2	18055.1	18301.7	15875.6	10142.4
75°	1062.1	1001.7	1072.1	1137.6	1656.0	2843.9	7353.9	12286.7	12523.3	10177.7	6035.1
77.5°	795.3	770.1	775.2	719.8	734.9	1067.1	3357.3	6493.2	6664.3	4167.7	2290.2
80°	609.1	543.6	508.4	533.5	483.2	422.8	1248.3	2234.9	2340.6	986.6	478.2
82.5°	407.7	352.3	327.2	357.4	307.0	236.6	302.0	432.9	422.8	266.8	186.2
85°	211.4	181.2	181.2	181.2	156.0	115.8	130.9	176.2	176.2	140.9	110.7
87.5°	60.4	55.4	65.4	60.4	45.3	45.3	50.3	60.4	60.4	55.4	50.3
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°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2255.0	2234.9	2179.5	2139.2	2099.0	2063.7	2023.5	2013.4	1993.3	1998.3	1988.2
5°	2270.1	2214.7	2119.1	2028.5	1958.0	1897.6	1822.1	1791.9	1751.6	1736.5	1726.5
7.5°	2290.2	2209.7	2068.8	1942.9	1822.1	1701.3	1580.5	1510.0	1464.7	1444.6	1429.5
10°	2335.5	2229.8	2043.6	1847.3	1640.9	1469.8	1349.0	1298.6	1268.4	1263.4	1258.4
12.5°	2395.9	2260.0	2018.4	1726.5	1454.7	1293.6	1218.1	1203.0	1198.0	1198.0	1192.9
15°	2486.5	2310.4	1978.2	1585.5	1308.7	1198.0	1162.7	1137.6	1127.5	1127.5	1127.5
17.5°	2577.1	2370.8	1917.8	1439.6	1208.0	1137.6	1102.3	1087.2	1077.2	1082.2	1077.2
20°	2692.9	2441.2	1837.2	1313.7	1142.6	1087.2	1052.0	1036.9	1031.9	1031.9	1031.9
22.5°	2823.8	2521.8	1736.5	1218.1	1087.2	1036.9	1001.7	986.6	976.5	981.5	981.5
25°	3000.0	2622.4	1630.8	1122.5	1031.9	986.6	946.3	926.2	926.2	931.2	936.2
27.5°	3226.5	2743.2	1525.1	1062.1	981.5	936.2	890.9	870.8	875.8	885.9	885.9
30°	3558.7	2909.3	1419.4	996.6	926.2	875.8	835.6	815.4	825.5	845.6	845.6
32.5°	4031.8	3181.2	1328.8	921.1	845.6	790.3	750.0	734.9	760.1	800.3	800.3
35°	4877.4	3679.5	1273.5	845.6	760.1	694.6	644.3	629.2	664.4	714.8	714.8
37.5°	6010.0	4479.8	1293.6	780.2	689.6	614.1	558.7	538.6	563.7	609.1	624.2
40°	7273.4	5446.2	1469.8	724.8	624.2	548.6	493.3	473.1	488.2	508.4	513.4
42.5°	8536.8	6473.0	1802.0	684.6	573.8	493.3	442.9	427.8	437.9	442.9	448.0
45°	9795.1	7489.8	2219.8	659.4	528.5	448.0	397.6	397.6	402.7	402.7	402.7
47.5°	10988.1	8481.4	2657.7	654.4	488.2	402.7	362.4	367.4	367.4	372.5	372.5
50°	12115.6	9367.3	3100.6	669.5	453.0	362.4	332.2	332.2	332.2	337.2	332.2
52.5°	13056.8	10142.4	3563.7	694.6	417.8	332.2	302.0	302.0	302.0	307.0	302.0
55°	13947.8	10847.1	4036.8	729.9	387.6	307.0	276.8	266.8	266.8	271.8	266.8
57.5°	14672.6	11315.2	4484.8	734.9	362.4	281.9	256.7	241.6	241.6	241.6	241.6
60°	14702.8	11043.4	4615.7	644.3	332.2	256.7	231.5	211.4	216.4	216.4	216.4
62.5°	13741.4	9613.9	3709.7	483.2	297.0	231.5	211.4	191.3	191.3	191.3	191.3
65°	11853.8	7479.7	2174.5	382.5	256.7	206.4	186.2	171.1	171.1	171.1	166.1
66°	10967.9	6558.6	1666.1	347.3	241.6	201.3	181.2	166.1	161.1	156.0	156.0
67.5°	9523.3	5184.5	1041.9	307.0	221.5	186.2	166.1	151.0	146.0	140.9	140.9
70°	7172.7	3291.9	508.4	236.6	191.3	161.1	146.0	130.9	125.8	120.8	115.8
72.5°	5033.5	1927.8	266.8	181.2	156.0	140.9	125.8	110.7	105.7	100.7	100.7
75°	2843.9	931.2	176.2	130.9	125.8	115.8	105.7	90.6	85.6	85.6	85.6
77.5°	1077.2	322.1	120.8	95.6	100.7	90.6	75.5	75.5	70.5	75.5	70.5
80°	281.9	140.9	75.5	70.5	75.5	65.4	55.4	60.4	60.4	60.4	60.4
82.5°	151.0	80.5	45.3	50.3	45.3	45.3	35.2	40.3	45.3	40.3	45.3
85°	105.7	40.3	25.2	25.2	20.1	20.1	15.1	20.1	25.2	20.1	20.1
87.5°	55.4	15.1	15.1	15.1	15.1	10.1	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)