

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: P1211530

Luminaire Tested: **ARCH4-300-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211530
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: ARCH4-300-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA 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: 30200 lumens
Efficiency: N/A
Efficacy: 100.9 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): 299.2
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



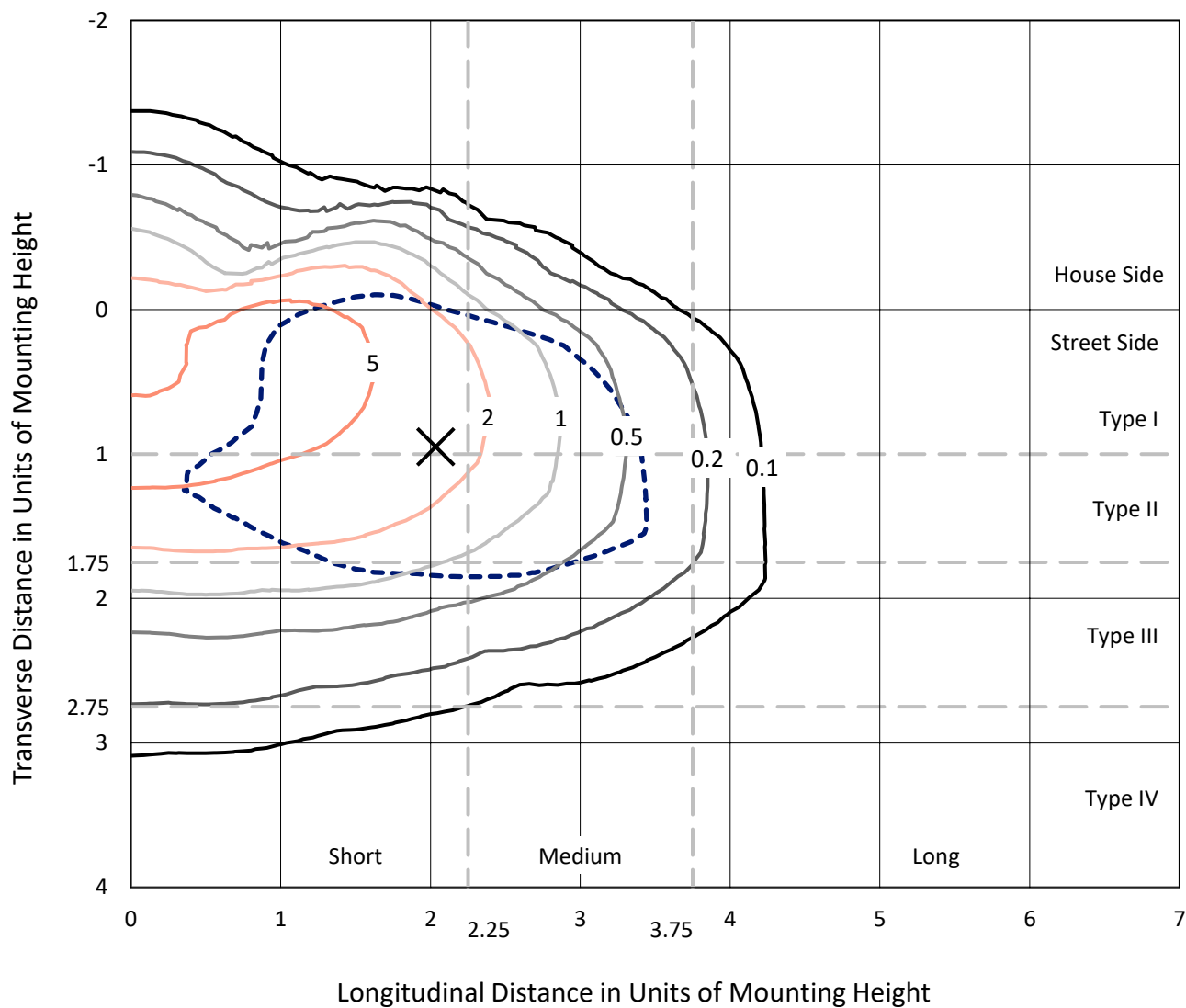
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Iso-Footcandle Lines of Horizontal Illumination

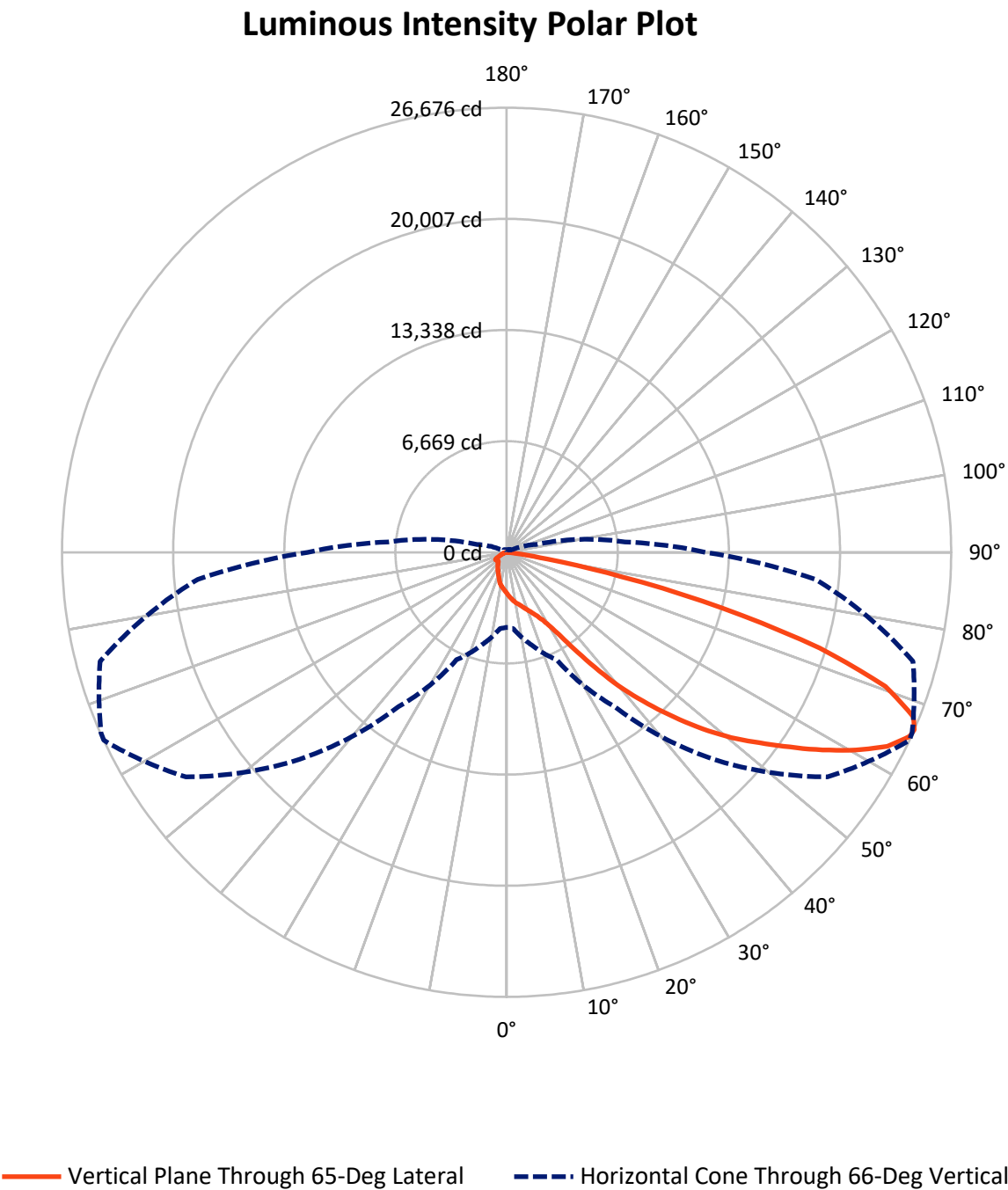
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3564.2	0.0	3564.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	26635.8	0.0	26635.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	30200.0	0.0	30200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	0.8
10°-20°	690.5	2.3
20°-30°	1263.9	4.2
30°-40°	2568.1	8.5
40°-50°	5423.1	18.0
50°-60°	8337.1	27.6
60°-70°	8391.9	27.8
70°-80°	3135.6	10.4
80°-90°	156.6	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°	30200.0	100.0
0°-180°	30200.0	100.0

Coefficient of Utilization



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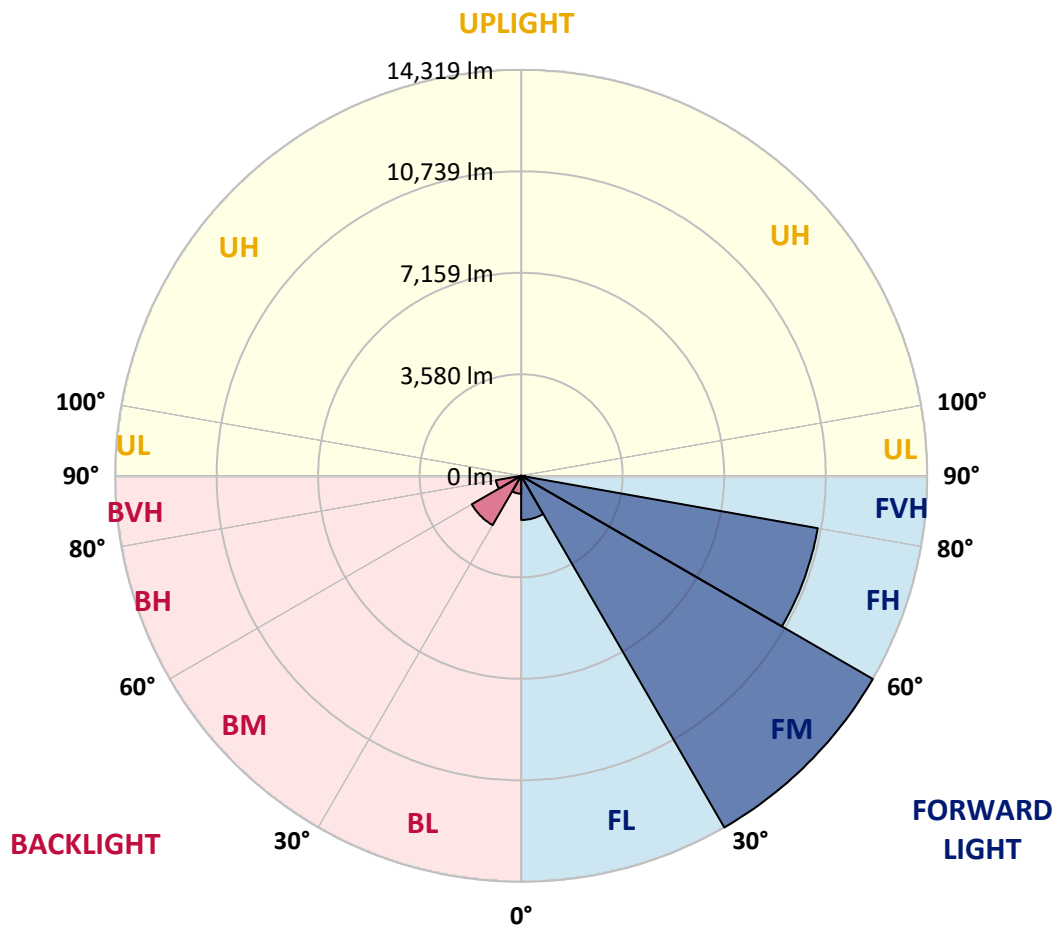
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1556.8	5.2			
FM	(30°-60°)	14318.7	47.4			
FH	(60°-80°)	10622.1	35.2			G4/12000
FVH	(80°-90°)	138.2	0.5			G2/225
BL	(0°-30°)	630.8	2.1	B2/1000		
BM	(30°-60°)	2009.5	6.7	B2/2500		
BH	(60°-80°)	905.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	18.4	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°	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5
2.5°	2805.7	2811.2	2800.2	2778.3	2756.4	2729.0	2685.1	2613.9	2602.9	2553.6	2498.8
5°	2997.5	3008.4	2992.0	2986.5	2975.6	2937.2	2876.9	2772.8	2761.8	2663.2	2537.2
7.5°	3063.2	3079.7	3068.7	3068.7	3068.7	3052.3	3024.9	2931.7	2915.3	2789.2	2597.4
10°	3112.6	3123.5	3118.0	3140.0	3156.4	3145.4	3129.0	3074.2	3057.8	2931.7	2679.6
12.5°	3189.3	3194.7	3200.2	3211.2	3238.6	3249.5	3244.1	3194.7	3183.8	3096.1	2783.8
15°	3260.5	3260.5	3266.0	3315.3	3353.7	3375.6	3381.1	3342.7	3331.7	3260.5	2915.3
17.5°	3326.3	3331.7	3348.2	3403.0	3468.7	3512.6	3540.0	3523.5	3507.1	3452.3	3068.7
20°	3424.9	3435.9	3452.3	3529.0	3594.8	3666.0	3720.8	3715.3	3709.9	3671.5	3249.5
22.5°	3594.8	3605.7	3633.1	3704.4	3770.1	3857.8	3951.0	3945.5	3929.0	3901.6	3463.3
25°	3852.3	3852.3	3868.8	3929.0	4011.2	4115.4	4203.0	4219.5	4203.0	4186.6	3731.8
27.5°	4175.6	4181.1	4181.1	4246.9	4323.6	4455.1	4564.7	4581.2	4581.2	4564.7	4093.4
30°	4625.0	4608.5	4597.6	4652.4	4734.6	4926.4	5118.2	5151.1	5134.6	5162.0	4603.1
32.5°	5397.6	5370.2	5277.1	5288.1	5337.4	5600.4	5923.7	6038.8	6033.3	6082.6	5425.0
35°	6466.2	6411.4	6274.4	6159.3	6153.9	6438.8	6932.0	7364.9	7359.4	7529.3	6674.5
37.5°	7671.8	7743.0	7485.5	7288.2	7227.9	7452.6	8088.3	9025.3	9074.6	9370.5	8312.9
40°	9282.9	9326.7	8997.9	8718.4	8433.5	8515.7	9354.1	10811.7	10899.4	11228.2	9951.4
42.5°	10685.7	10729.5	10537.7	10198.0	9836.3	9682.9	10630.9	12433.8	12505.0	12959.8	11639.2
45°	11639.2	11672.1	11737.8	11770.7	11359.7	11041.9	12192.7	14099.6	14187.3	14713.4	13288.6
47.5°	12384.4	12411.8	12543.4	12872.2	12790.0	12537.9	13781.8	15831.3	15853.2	16439.5	14894.2
50°	12729.7	12795.4	13118.7	13622.9	13984.6	14055.8	15508.0	17469.7	17530.0	18089.0	16412.1
52.5°	12346.1	12368.0	13184.5	14132.5	14861.3	15584.7	17239.6	18987.7	19163.0	19579.5	17776.6
55°	11052.8	11211.8	12450.2	14116.1	15551.8	17036.8	19091.8	20626.1	20785.1	21048.1	18976.7
57.5°	9551.4	9726.7	11233.7	13409.2	15847.7	18379.4	20807.0	22368.7	22478.3	22549.6	20078.2
60°	8252.6	8417.0	9967.8	12055.7	15551.8	19327.4	22401.6	24100.4	24193.5	24001.7	20631.6
62.5°	6658.0	6822.4	8384.2	10263.7	14390.1	19519.2	23585.3	25640.2	25678.6	25158.0	20291.9
65°	5019.5	5129.1	6433.3	8044.4	12357.0	18500.0	23853.8	26599.2	26560.8	25492.2	19272.6
66°	4499.0	4592.1	5742.9	7112.8	11299.4	17568.4	23492.1	26675.9	26637.5	25245.6	18604.1
67.5°	3879.7	3907.1	4855.1	5819.6	9452.7	15590.2	22390.6	26325.2	26358.1	24566.1	17382.1
70°	3030.4	3024.9	3572.9	4049.6	6455.3	11091.2	18675.3	24116.8	24275.7	22001.6	14823.0
72.5°	1939.9	1874.1	2191.9	2476.9	3759.2	6438.8	13617.4	19656.2	19924.7	17283.4	11041.9
75°	1156.2	1090.5	1167.2	1238.4	1802.9	3096.1	8006.1	13376.3	13633.9	11080.2	6570.3
77.5°	865.8	838.4	843.9	783.6	800.1	1161.7	3655.1	7069.0	7255.3	4537.3	2493.3
80°	663.1	591.8	553.5	580.9	526.1	460.3	1359.0	2433.1	2548.1	1074.0	520.6
82.5°	443.9	383.6	356.2	389.1	334.3	257.6	328.8	471.3	460.3	290.4	202.8
85°	230.2	197.3	197.3	197.3	169.9	126.0	142.5	191.8	191.8	153.4	120.6
87.5°	65.8	60.3	71.2	65.8	49.3	49.3	54.8	65.8	65.8	60.3	54.8
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°	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5	2460.5
2.5°	2455.0	2433.1	2372.8	2328.9	2285.1	2246.7	2202.9	2191.9	2170.0	2175.5	2164.5
5°	2471.4	2411.1	2307.0	2208.4	2131.7	2065.9	1983.7	1950.8	1907.0	1890.5	1879.6
7.5°	2493.3	2405.7	2252.2	2115.2	1983.7	1852.2	1720.7	1644.0	1594.6	1572.7	1556.3
10°	2542.6	2427.6	2224.8	2011.1	1786.4	1600.1	1468.6	1413.8	1380.9	1375.4	1370.0
12.5°	2608.4	2460.5	2197.4	1879.6	1583.7	1408.3	1326.1	1309.7	1304.2	1304.2	1298.7
15°	2707.0	2515.2	2153.6	1726.2	1424.8	1304.2	1265.8	1238.4	1227.5	1227.5	1227.5
17.5°	2805.7	2581.0	2087.8	1567.2	1315.2	1238.4	1200.1	1183.6	1172.7	1178.2	1172.7
20°	2931.7	2657.7	2000.1	1430.2	1243.9	1183.6	1145.3	1128.8	1123.4	1123.4	1123.4
22.5°	3074.2	2745.4	1890.5	1326.1	1183.6	1128.8	1090.5	1074.0	1063.1	1068.6	1068.6
25°	3266.0	2855.0	1775.5	1222.0	1123.4	1074.0	1030.2	1008.3	1008.3	1013.8	1019.3
27.5°	3512.6	2986.5	1660.4	1156.2	1068.6	1019.3	969.9	948.0	953.5	964.5	964.5
30°	3874.3	3167.4	1545.3	1085.0	1008.3	953.5	909.7	887.7	898.7	920.6	920.6
32.5°	4389.4	3463.3	1446.7	1002.8	920.6	860.3	816.5	800.1	827.5	871.3	871.3
35°	5310.0	4005.8	1386.4	920.6	827.5	756.2	701.4	685.0	723.3	778.1	778.1
37.5°	6542.9	4877.1	1408.3	849.4	750.7	668.5	608.3	586.3	613.7	663.1	679.5
40°	7918.4	5929.2	1600.1	789.1	679.5	597.3	537.0	515.1	531.5	553.5	558.9
42.5°	9293.8	7047.1	1961.8	745.3	624.7	537.0	482.2	465.8	476.7	482.2	487.7
45°	10663.8	8154.0	2416.6	717.9	575.4	487.7	432.9	432.9	438.4	438.4	438.4
47.5°	11962.5	9233.5	2893.4	712.4	531.5	438.4	394.5	400.0	400.0	405.5	405.5
50°	13190.0	10198.0	3375.6	728.8	493.2	394.5	361.7	361.7	361.7	367.1	361.7
52.5°	14214.7	11041.9	3879.7	756.2	454.8	361.7	328.8	328.8	328.8	334.3	328.8
55°	15184.6	11809.1	4394.8	794.6	421.9	334.3	301.4	290.4	290.4	295.9	290.4
57.5°	15973.7	12318.7	4882.5	800.1	394.5	306.9	279.5	263.0	263.0	263.0	263.0
60°	16006.6	12022.8	5025.0	701.4	361.7	279.5	252.1	230.2	235.6	235.6	235.6
62.5°	14960.0	10466.5	4038.6	526.1	323.3	252.1	230.2	208.2	208.2	208.2	208.2
65°	12905.0	8143.0	2367.3	416.5	279.5	224.7	202.8	186.3	186.3	186.3	180.8
66°	11940.6	7140.2	1813.8	378.1	263.0	219.2	197.3	180.8	175.4	169.9	169.9
67.5°	10367.9	5644.2	1134.3	334.3	241.1	202.8	180.8	164.4	158.9	153.4	153.4
70°	7808.8	3583.8	553.5	257.6	208.2	175.4	158.9	142.5	137.0	131.5	126.0
72.5°	5479.8	2098.8	290.4	197.3	169.9	153.4	137.0	120.6	115.1	109.6	109.6
75°	3096.1	1013.8	191.8	142.5	137.0	126.0	115.1	98.6	93.2	93.2	93.2
77.5°	1172.7	350.7	131.5	104.1	109.6	98.6	82.2	82.2	76.7	82.2	76.7
80°	306.9	153.4	82.2	76.7	82.2	71.2	60.3	65.8	65.8	65.8	65.8
82.5°	164.4	87.7	49.3	54.8	49.3	49.3	38.4	43.8	49.3	43.8	49.3
85°	115.1	43.8	27.4	27.4	21.9	21.9	16.4	21.9	27.4	21.9	21.9
87.5°	60.3	16.4	16.4	16.4	16.4	11.0	5.5	0.0	5.5	5.5	5.5
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)