

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: P1211528

Luminaire Tested: **ARCH4-300-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211528
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: ARCH4-300-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA 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: 30523 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - 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



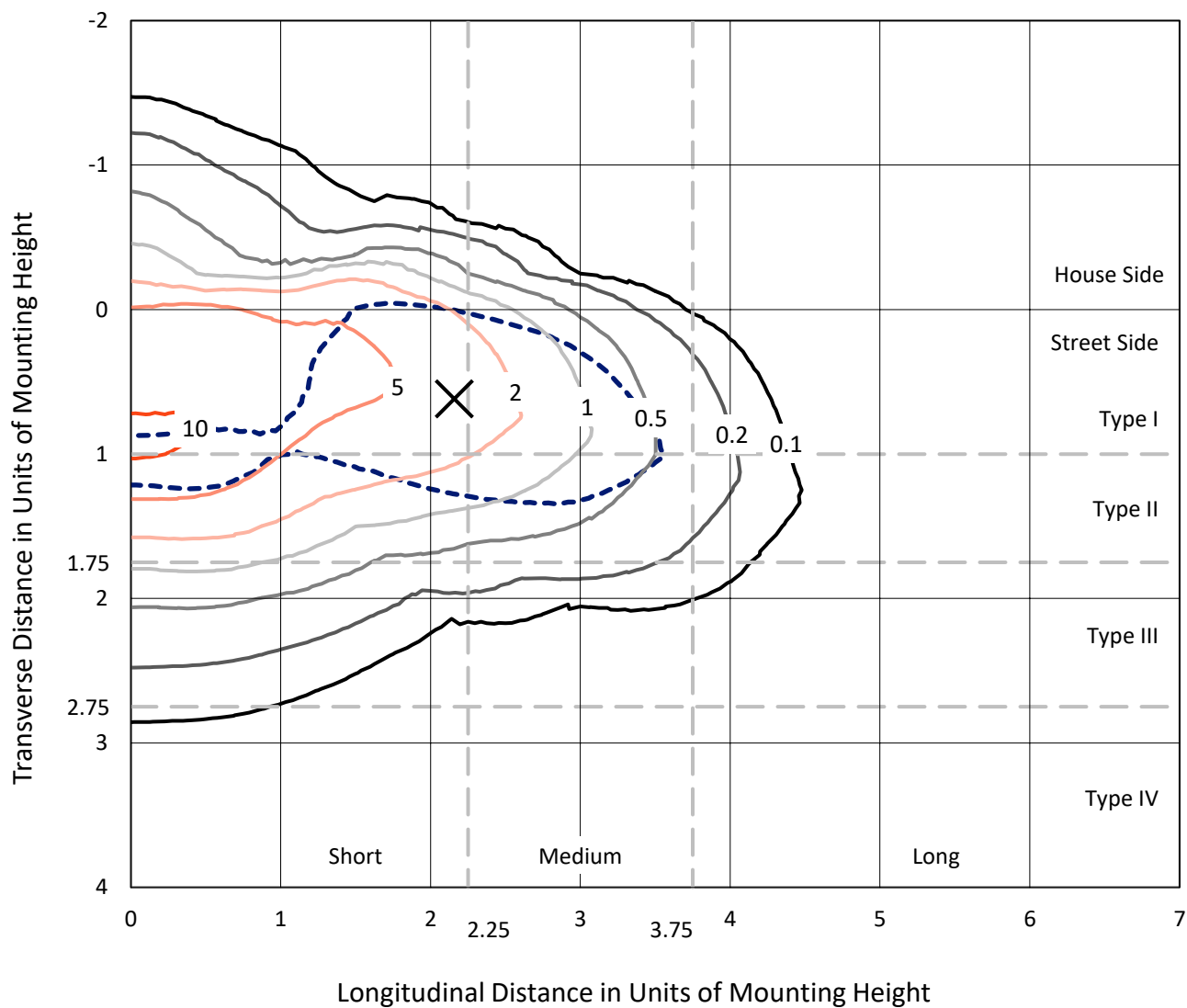
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Iso-Footcandle Lines of Horizontal Illumination

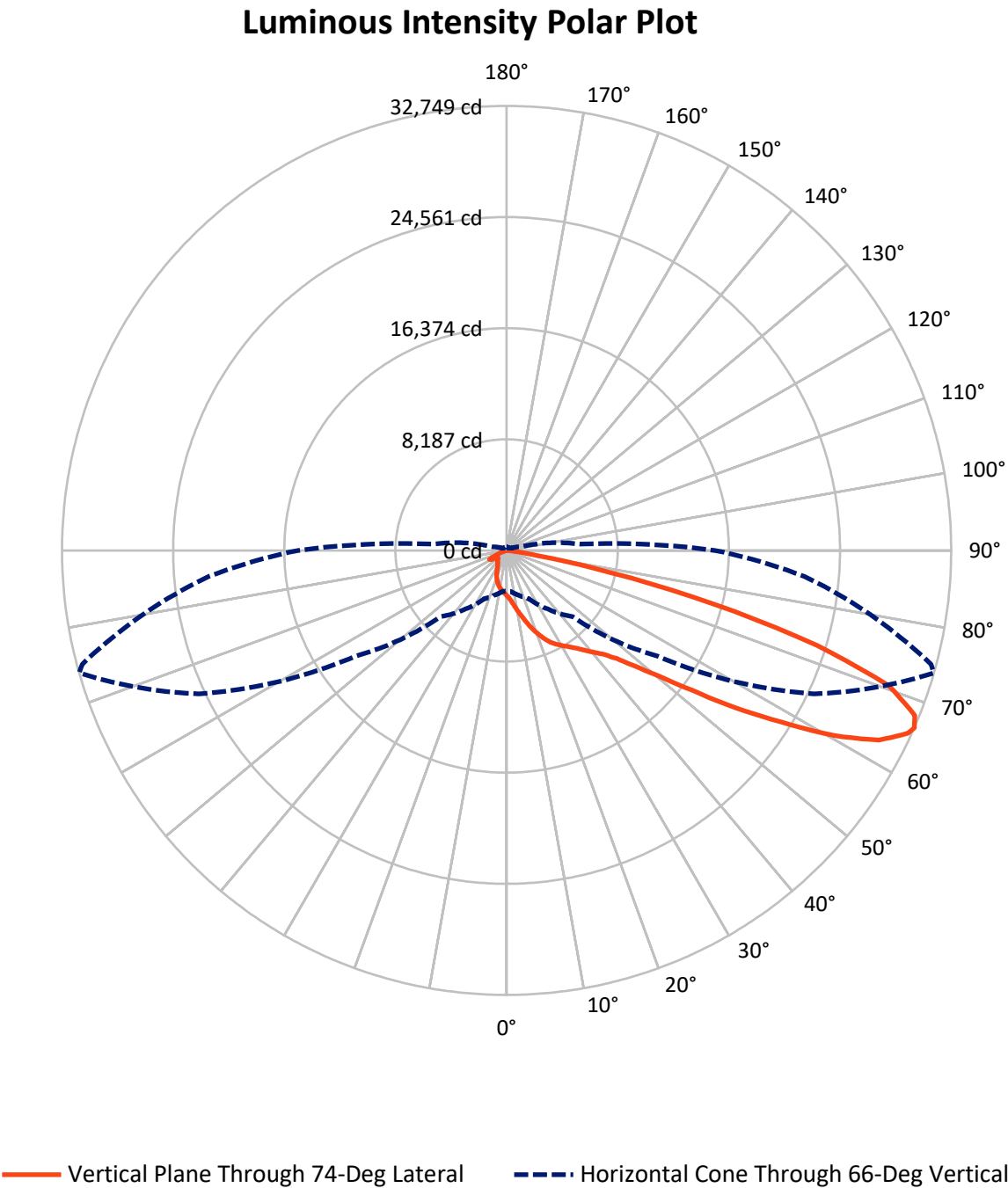
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2992.2	0.0	2992.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	27530.8	0.0	27530.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	30523.0	0.0	30523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.2	1.1
10°-20°	1042.6	3.4
20°-30°	1989.7	6.5
30°-40°	3487.4	11.4
40°-50°	5980.0	19.6
50°-60°	7777.5	25.5
60°-70°	7040.5	23.1
70°-80°	2716.6	8.9
80°-90°	163.5	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°	30523.0	100.0
0°-180°	30523.0	100.0

Coefficient of Utilization



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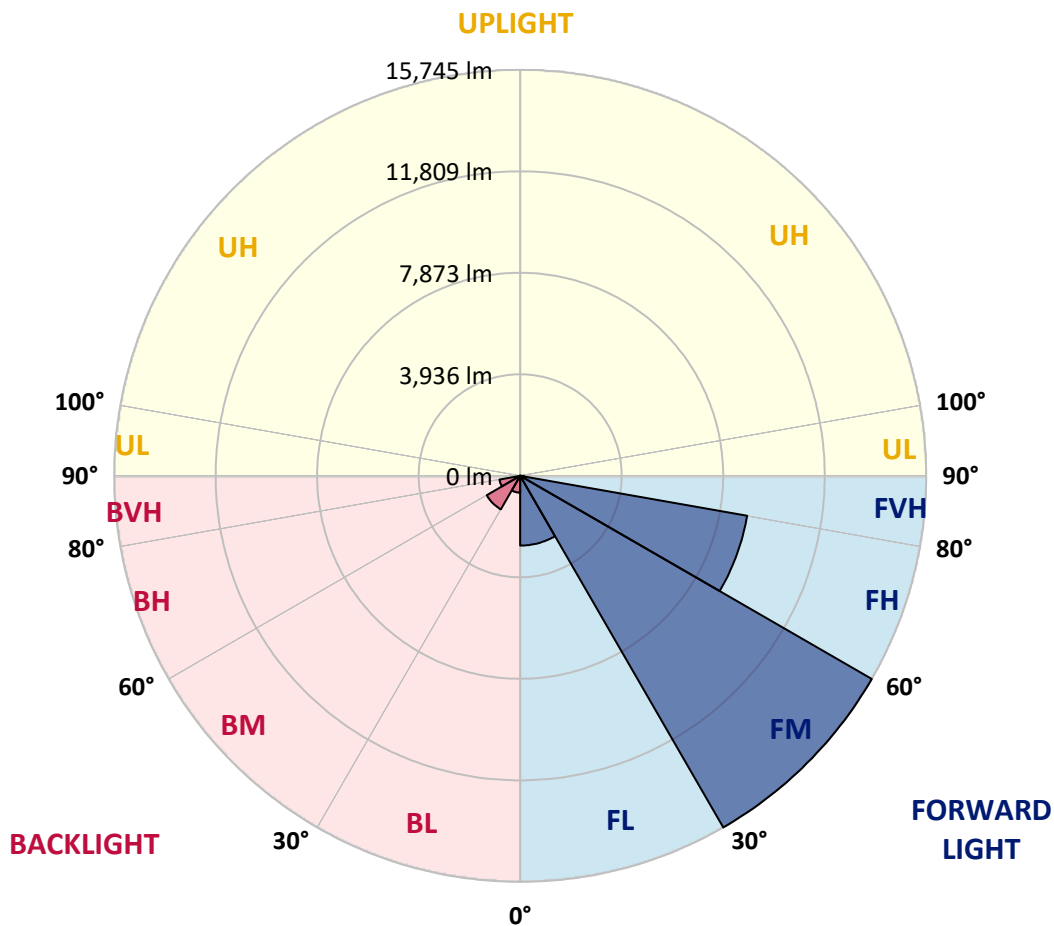
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2704.8	8.9			
FM	(30°-60°)	15745.3	51.6			
FH	(60°-80°)	8939.1	29.3			G4/12000
FVH	(80°-90°)	141.6	0.5			G2/225
BL	(0°-30°)	652.7	2.1	B2/1000		
BM	(30°-60°)	1499.6	4.9	B2/2500		
BH	(60°-80°)	818.0	2.7	B2/1000		G2/1000
BVH	(80°-90°)	21.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8
2.5°	4000.4	3967.5	3907.3	3901.8	3852.5	3792.2	3688.1	3578.4	3501.7	3490.8	3397.6
5°	4789.5	4773.1	4712.8	4674.5	4581.3	4438.8	4197.7	3956.6	3753.8	3731.9	3523.6
7.5°	4997.8	5008.7	5019.7	5058.1	5025.2	4959.4	4778.6	4438.8	4121.0	4071.7	3710.0
10°	5030.7	5019.7	5019.7	5069.0	5162.2	5255.3	5233.4	4943.0	4532.0	4471.7	3967.5
12.5°	5386.9	5403.3	5364.9	5343.0	5326.6	5375.9	5540.3	5414.3	4964.9	4915.6	4279.9
15°	5847.2	5841.7	5786.9	5786.9	5737.6	5655.4	5759.5	5852.7	5485.5	5425.2	4636.1
17.5°	6181.5	6203.4	6197.9	6230.8	6214.3	6104.7	6049.9	6241.7	6022.5	5945.8	5041.6
20°	6450.0	6510.3	6532.2	6636.3	6685.6	6608.9	6466.4	6587.0	6537.7	6466.4	5452.6
22.5°	6734.9	6784.3	6822.6	7003.5	7140.5	7124.0	6943.2	6915.8	7036.3	6970.6	5858.1
25°	7019.9	7041.8	7156.9	7376.1	7595.3	7650.1	7463.8	7250.1	7485.7	7425.4	6219.8
27.5°	7332.3	7343.2	7480.2	7748.7	8055.6	8170.7	8022.7	7628.2	7830.9	7830.9	6548.6
30°	7902.2	8011.8	8066.6	8307.7	8576.2	8735.1	8559.8	8028.2	8137.8	8187.1	6893.9
32.5°	9129.7	9146.1	9129.7	9233.8	9288.6	9381.8	9179.0	8477.6	8450.2	8505.0	7233.6
35°	11003.9	10938.1	10762.8	10609.3	10291.5	10116.1	9853.1	9053.0	8833.8	8910.5	7567.9
37.5°	13278.1	13184.9	12784.9	12313.6	11634.1	10932.6	10603.8	9754.4	9321.5	9420.1	7929.6
40°	15448.2	15387.9	14911.1	14330.2	13168.5	11968.4	11272.4	10346.3	9864.0	9902.4	8296.7
42.5°	17234.6	17223.7	16823.6	16215.4	14724.8	13086.3	12061.5	10927.2	10433.9	10494.2	8680.3
45°	18588.2	18484.1	18188.2	17749.8	16231.8	14248.0	13015.0	11809.4	11349.1	11420.4	9255.7
47.5°	18588.2	18604.7	18796.5	18752.6	17284.0	15338.6	14056.2	12921.9	12702.7	12768.4	10203.8
50°	17075.7	17229.2	18084.1	18801.9	17832.0	16188.0	15179.6	14313.8	14538.5	14637.1	11858.8
52.5°	14083.6	14341.2	15826.3	17464.8	17426.4	16615.4	16341.4	16083.8	17092.2	17267.5	14302.8
55°	10702.5	10872.4	12806.8	14960.4	15661.9	16264.7	17355.2	18330.7	20473.3	20435.0	16785.3
57.5°	7995.3	8154.3	9820.2	12209.5	13135.6	14746.7	17875.8	20900.8	23827.1	23975.1	19114.3
60°	5880.1	6000.6	7419.9	9381.8	10718.9	12423.2	17667.6	23432.5	27690.5	27520.6	21169.3
62.5°	4351.1	4416.9	5441.7	6718.5	8494.0	10121.6	16357.8	25164.2	30775.8	30430.5	22314.6
65°	3364.7	3386.6	3918.2	4597.7	6176.0	7869.3	14407.0	25427.3	32480.1	32112.9	22292.7
66°	2997.6	3014.0	3403.1	3929.2	5255.3	6888.4	13552.1	25005.3	32748.6	32359.5	22018.7
67.5°	2515.3	2504.4	2734.5	3079.8	3945.6	5315.6	12034.1	23772.3	32430.7	32233.4	21141.9
70°	1863.2	1868.7	1983.8	2066.0	2307.1	2942.8	8691.3	20621.3	29888.0	29877.0	18736.2
72.5°	1381.0	1397.4	1485.1	1501.5	1441.2	1594.7	5008.7	16401.7	23909.3	23914.8	14006.9
75°	1035.7	1063.1	1090.5	1101.5	1046.7	1008.3	2263.2	11036.8	15727.6	15612.6	7929.6
77.5°	789.1	800.1	822.0	805.6	794.6	696.0	942.6	5381.4	7765.2	7074.7	2570.1
80°	575.4	575.4	597.3	575.4	569.9	498.7	515.1	1726.2	2279.7	1896.1	553.5
82.5°	361.7	356.2	372.6	367.2	356.2	317.8	301.4	482.2	526.1	471.3	268.5
85°	202.8	197.3	191.8	186.3	169.9	142.5	164.4	180.8	241.1	246.6	191.8
87.5°	71.2	71.2	65.8	60.3	49.3	49.3	60.3	60.3	87.7	87.7	98.6
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°	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8
2.5°	3353.8	3293.5	3205.8	3090.7	3008.5	2926.3	2838.6	2789.3	2718.1	2701.6	2723.6
5°	3414.0	3304.4	3085.2	2844.1	2635.9	2449.6	2274.2	2170.1	2066.0	2027.6	2044.0
7.5°	3540.1	3353.8	2981.1	2592.0	2246.8	1967.3	1759.1	1638.5	1545.4	1507.0	1518.0
10°	3726.4	3441.4	2882.5	2307.1	1863.2	1567.3	1391.9	1315.2	1260.4	1238.5	1244.0
12.5°	3951.1	3567.5	2756.4	2022.1	1534.4	1276.8	1194.6	1178.2	1167.2	1156.3	1161.8
15°	4203.2	3677.1	2608.5	1742.6	1276.8	1134.4	1107.0	1101.5	1096.0	1096.0	1096.0
17.5°	4466.2	3775.7	2444.1	1479.6	1112.4	1046.7	1030.2	1030.2	1030.2	1035.7	1035.7
20°	4712.8	3852.5	2252.3	1244.0	1019.3	964.5	953.5	953.5	959.0	964.5	964.5
22.5°	4953.9	3885.3	2027.6	1079.6	942.6	893.2	876.8	876.8	876.8	882.3	882.3
25°	5162.2	3885.3	1802.9	975.4	876.8	827.5	805.6	800.1	805.6	805.6	805.6
27.5°	5337.5	3868.9	1583.7	904.2	811.0	761.7	739.8	734.3	745.3	750.8	750.8
30°	5523.9	3847.0	1408.4	838.4	756.2	706.9	685.0	685.0	701.4	723.4	723.4
32.5°	5704.7	3863.4	1271.4	783.6	701.4	663.1	641.2	646.6	679.5	712.4	712.4
35°	5896.5	3896.3	1189.2	745.3	663.1	624.7	608.3	624.7	657.6	690.5	690.5
37.5°	6088.3	3934.7	1139.8	712.4	630.2	591.8	580.9	602.8	641.2	674.0	679.5
40°	6291.1	3967.5	1085.0	679.5	608.3	564.4	559.0	580.9	630.2	663.1	668.6
42.5°	6543.1	4033.3	1019.3	652.1	586.4	531.6	537.0	553.5	602.8	652.1	657.6
45°	7036.3	4241.5	953.5	624.7	559.0	515.1	504.2	515.1	569.9	624.7	635.7
47.5°	7962.5	4712.8	882.3	597.3	531.6	504.2	460.3	471.3	520.6	580.9	586.4
50°	9738.0	5715.7	843.9	569.9	509.6	465.8	416.5	416.5	454.8	509.6	509.6
52.5°	12505.4	7513.1	865.8	548.0	482.2	427.4	378.1	372.6	394.6	432.9	432.9
55°	15492.0	9485.9	948.0	526.1	449.4	405.5	350.7	323.3	339.8	361.7	361.7
57.5°	17859.4	10477.8	1172.7	515.1	411.0	389.1	317.8	279.5	295.9	317.8	317.8
60°	18900.6	9896.9	1424.8	526.1	383.6	361.7	285.0	246.6	274.0	295.9	301.4
62.5°	18056.7	8148.8	1528.9	498.7	345.2	323.3	279.5	230.2	263.0	279.5	285.0
65°	16231.8	6192.4	1194.6	432.9	317.8	279.5	252.1	219.2	246.6	263.0	263.0
66°	15366.0	5397.8	1019.3	400.0	306.9	263.0	241.1	219.2	241.1	252.1	257.6
67.5°	14023.4	4258.0	756.2	350.7	285.0	241.1	224.7	208.2	230.2	241.1	241.1
70°	10965.5	2537.2	454.8	274.0	246.6	213.7	202.8	191.8	208.2	213.7	213.7
72.5°	6866.5	1205.6	290.4	202.8	208.2	202.8	169.9	180.8	186.3	191.8	191.8
75°	3326.4	476.8	197.3	148.0	169.9	191.8	137.0	158.9	164.4	175.4	169.9
77.5°	926.1	230.2	126.0	109.6	148.0	148.0	104.1	126.0	148.0	186.3	169.9
80°	268.5	148.0	82.2	82.2	104.1	104.1	71.2	87.7	98.6	109.6	115.1
82.5°	186.3	98.6	54.8	60.3	60.3	65.8	43.8	43.8	54.8	54.8	60.3
85°	148.0	43.8	32.9	38.4	27.4	32.9	21.9	21.9	27.4	21.9	21.9
87.5°	60.3	21.9	21.9	21.9	16.4	16.4	11.0	5.5	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)