

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: P1211452

Luminaire Tested: **ARCH4-280-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211452
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: ARCH4-280-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1085mA 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: 27745 lumens
Efficiency: N/A
Efficacy: 99.2 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): 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



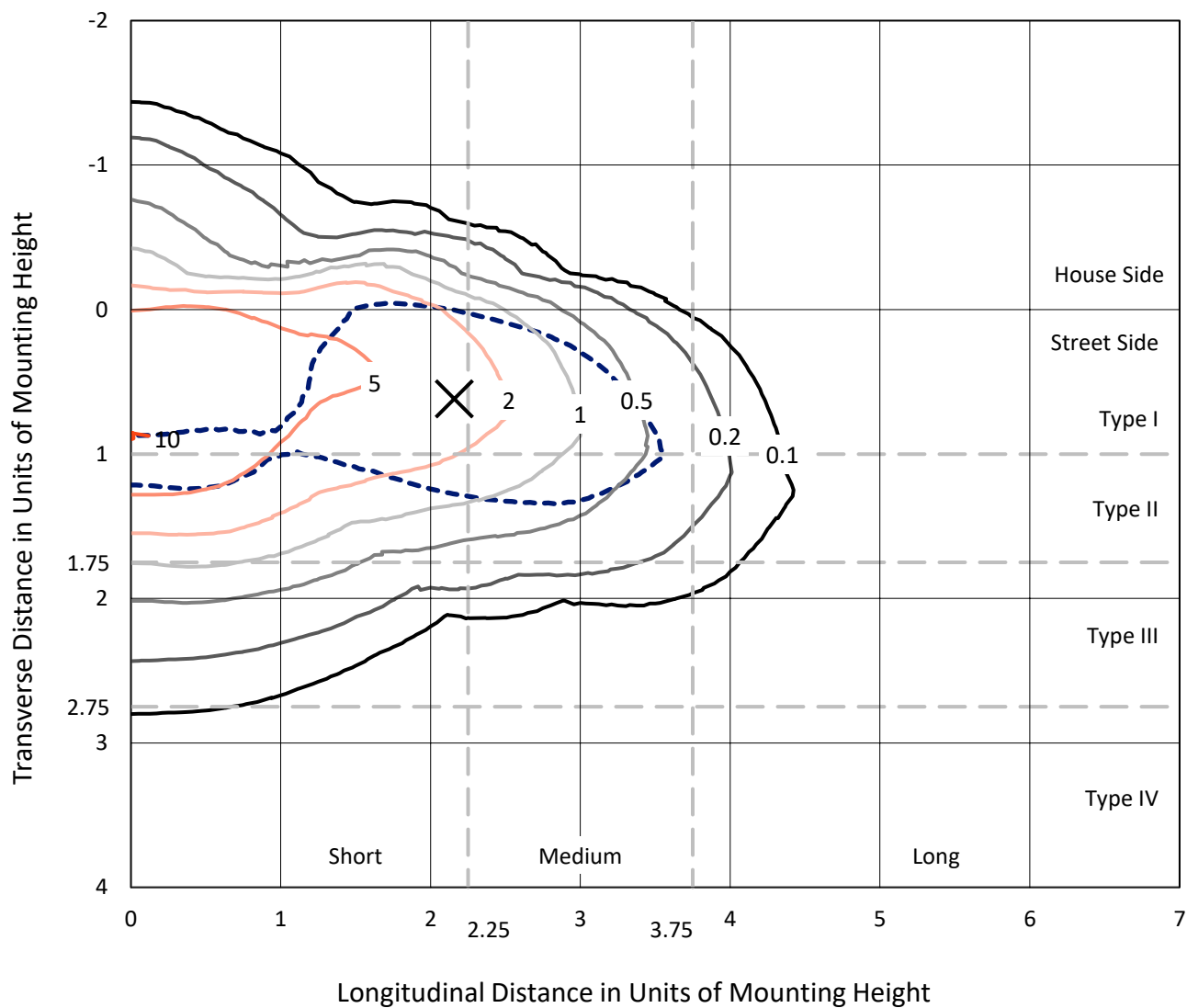
REPORT NUMBER: P1211452

CATALOG NUMBER: ARCH4-280-730-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

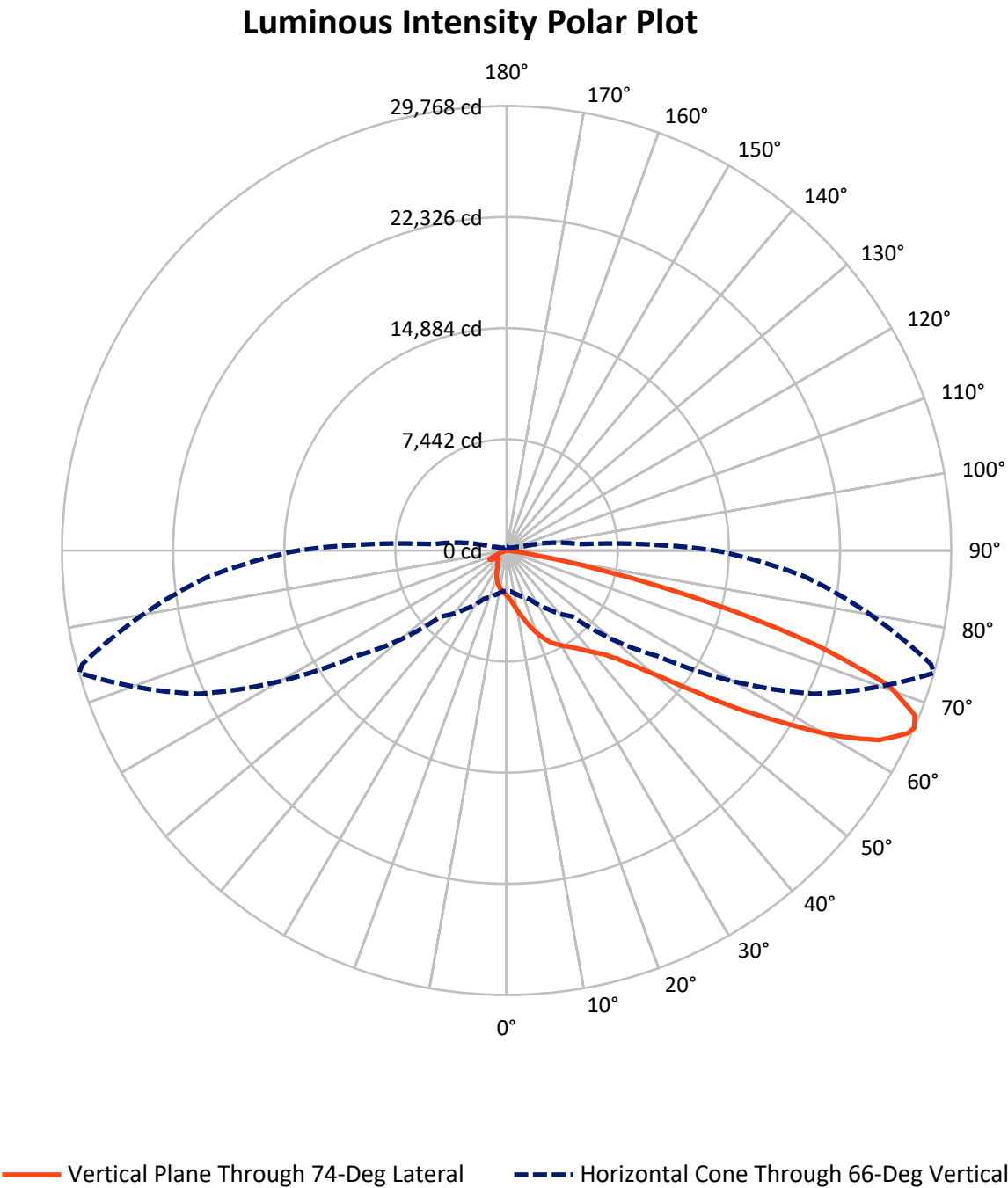
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type II - Short - N/A

REPORT NUMBER: P1211452
CATALOG NUMBER: ARCH4-280-730-U-T2RE-HSS



REPORT NUMBER: P1211452

CATALOG NUMBER: ARCH4-280-730-U-T2RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2719.9	0.0	2719.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	25025.1	0.0	25025.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	27745.0	0.0	27745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	1.1
10°-20°	947.7	3.4
20°-30°	1808.6	6.5
30°-40°	3170.0	11.4
40°-50°	5435.8	19.6
50°-60°	7069.6	25.5
60°-70°	6399.7	23.1
70°-80°	2469.4	8.9
80°-90°	148.6	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°	27745.0	100.0
0°-180°	27745.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211452

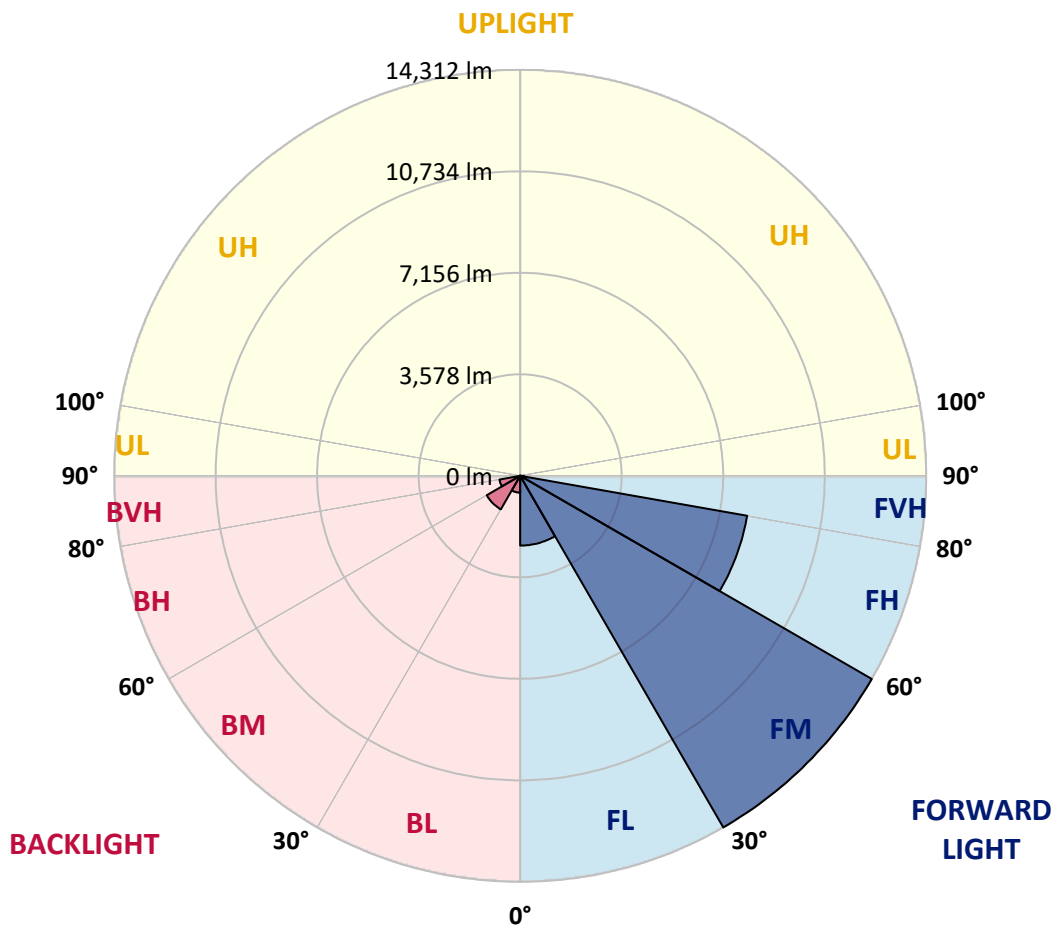
CATALOG NUMBER: ARCH4-280-730-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2458.6	8.9			
FM	(30°-60°)	14312.3	51.6			
FH	(60°-80°)	8125.5	29.3			G4/12000
FVH	(80°-90°)	128.7	0.5			G2/225
BL	(0°-30°)	593.3	2.1	B2/1000		
BM	(30°-60°)	1363.1	4.9	B2/2500		
BH	(60°-80°)	743.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	19.9	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



REPORT NUMBER: P1211452

CATALOG NUMBER: ARCH4-280-730-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6
2.5°	3636.3	3606.4	3551.6	3546.7	3501.8	3447.0	3352.4	3252.8	3183.0	3173.1	3088.4
5°	4353.6	4338.7	4283.9	4249.0	4164.3	4034.8	3815.6	3596.5	3412.2	3392.2	3203.0
7.5°	4542.9	4552.9	4562.8	4597.7	4567.8	4508.0	4343.7	4034.8	3745.9	3701.1	3372.3
10°	4572.8	4562.8	4562.8	4607.7	4692.3	4777.0	4757.1	4493.1	4119.5	4064.7	3606.4
12.5°	4896.6	4911.5	4876.7	4856.7	4841.8	4886.6	5036.1	4921.5	4513.0	4468.2	3890.4
15°	5315.0	5310.0	5260.2	5260.2	5215.4	5140.7	5235.3	5320.0	4986.2	4931.4	4214.1
17.5°	5618.9	5638.8	5633.8	5663.7	5648.7	5549.1	5499.3	5673.7	5474.4	5404.7	4582.8
20°	5862.9	5917.7	5937.7	6032.3	6077.1	6007.4	5877.9	5987.5	5942.6	5877.9	4956.4
22.5°	6122.0	6166.8	6201.7	6366.1	6490.6	6475.6	6311.3	6286.4	6395.9	6336.2	5325.0
25°	6381.0	6400.9	6505.5	6704.8	6904.0	6953.8	6784.5	6590.2	6804.4	6749.6	5653.7
27.5°	6664.9	6674.9	6799.4	7043.5	7322.5	7427.1	7292.6	6933.9	7118.2	7118.2	5952.6
30°	7183.0	7282.6	7332.4	7551.6	7795.7	7940.1	7780.7	7297.5	7397.2	7442.0	6266.4
32.5°	8298.8	8313.7	8298.8	8393.4	8443.2	8527.9	8343.6	7706.0	7681.1	7730.9	6575.3
35°	10002.4	9942.6	9783.2	9643.7	9354.8	9195.4	8956.3	8229.0	8029.8	8099.5	6879.1
37.5°	12069.6	11984.9	11621.3	11192.9	10575.2	9937.6	9638.7	8866.6	8473.1	8562.8	7207.9
40°	14042.2	13987.4	13554.0	13026.0	11970.0	10879.1	10246.5	9404.6	8966.3	9001.1	7541.6
42.5°	15666.1	15656.1	15292.5	14739.6	13384.6	11895.3	10963.8	9932.6	9484.3	9539.1	7890.3
45°	16896.4	16801.8	16532.8	16134.3	14754.5	12951.3	11830.5	10734.6	10316.2	10380.9	8413.3
47.5°	16896.4	16911.4	17085.7	17045.9	15710.9	13942.5	12776.9	11745.8	11546.6	11606.3	9275.1
50°	15521.6	15661.1	16438.2	17090.7	16209.0	14714.6	13798.1	13011.1	13215.3	13304.9	10779.4
52.5°	12801.8	13036.0	14385.9	15875.3	15840.4	15103.2	14854.1	14620.0	15536.6	15696.0	13001.1
55°	9728.4	9882.8	11641.2	13598.8	14236.4	14784.4	15775.7	16662.3	18610.0	18575.1	15257.6
57.5°	7267.7	7412.1	8926.4	11098.2	11940.1	13404.6	16248.9	18998.5	21658.5	21793.0	17374.6
60°	5344.9	5454.5	6744.6	8527.9	9743.3	11292.5	16059.6	21299.9	25170.3	25015.9	19242.6
62.5°	3955.1	4014.9	4946.4	6107.0	7721.0	9200.4	14869.1	22873.9	27974.8	27660.9	20283.7
65°	3058.5	3078.4	3561.6	4179.3	5613.9	7153.1	13095.7	23113.1	29523.9	29190.2	20263.8
66°	2724.7	2739.7	3093.4	3571.6	4777.0	6261.4	12318.7	22729.5	29768.0	29414.3	20014.7
67.5°	2286.4	2276.4	2485.6	2799.5	3586.5	4831.8	10938.8	21608.7	29479.1	29299.8	19217.7
70°	1693.6	1698.6	1803.2	1877.9	2097.1	2674.9	7900.3	18744.5	27167.8	27157.8	17030.9
72.5°	1255.3	1270.2	1349.9	1364.9	1310.1	1449.5	4552.9	14908.9	21733.2	21738.2	12732.1
75°	941.5	966.4	991.3	1001.2	951.4	916.6	2057.3	10032.3	14296.2	14191.6	7207.9
77.5°	717.3	727.3	747.2	732.2	722.3	632.6	856.8	4891.6	7058.4	6430.8	2336.2
80°	523.0	523.0	543.0	523.0	518.1	453.3	468.2	1569.1	2072.2	1723.5	503.1
82.5°	328.8	323.8	338.7	333.7	323.8	288.9	274.0	438.4	478.2	428.4	244.1
85°	184.3	179.3	174.3	169.4	154.4	129.5	149.4	164.4	219.2	224.2	174.3
87.5°	64.8	64.8	59.8	54.8	44.8	44.8	54.8	54.8	79.7	79.7	89.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211452

CATALOG NUMBER: ARCH4-280-730-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6	3028.6
2.5°	3048.5	2993.7	2914.0	2809.4	2734.7	2660.0	2580.3	2535.5	2470.7	2455.8	2475.7
5°	3103.3	3003.7	2804.4	2585.3	2396.0	2226.6	2067.2	1972.6	1877.9	1843.1	1858.0
7.5°	3217.9	3048.5	2709.8	2356.1	2042.3	1788.3	1599.0	1489.4	1404.7	1369.8	1379.8
10°	3387.3	3128.2	2620.1	2097.1	1693.6	1424.6	1265.2	1195.5	1145.7	1125.8	1130.7
12.5°	3591.5	3242.8	2505.6	1838.1	1394.8	1160.6	1085.9	1071.0	1061.0	1051.0	1056.0
15°	3820.6	3342.4	2371.1	1584.0	1160.6	1031.1	1006.2	1001.2	996.3	996.3	996.3
17.5°	4059.7	3432.1	2221.6	1344.9	1011.2	951.4	936.5	936.5	936.5	941.5	941.5
20°	4283.9	3501.8	2047.3	1130.7	926.5	876.7	866.7	866.7	871.7	876.7	876.7
22.5°	4503.1	3531.7	1843.1	981.3	856.8	811.9	797.0	797.0	797.0	802.0	802.0
25°	4692.3	3531.7	1638.8	886.7	797.0	752.2	732.2	727.3	732.2	732.2	732.2
27.5°	4851.7	3516.8	1439.6	821.9	737.2	692.4	672.5	667.5	677.5	682.4	682.4
30°	5021.1	3496.8	1280.2	762.1	687.4	642.6	622.7	622.7	637.6	657.5	657.5
32.5°	5185.5	3511.8	1155.7	712.3	637.6	602.7	582.8	587.8	617.7	647.6	647.6
35°	5359.8	3541.7	1080.9	677.5	602.7	567.9	552.9	567.9	597.8	627.6	627.6
37.5°	5534.2	3576.5	1036.1	647.6	572.8	538.0	528.0	547.9	582.8	612.7	617.7
40°	5718.5	3606.4	986.3	617.7	552.9	513.1	508.1	528.0	572.8	602.7	607.7
42.5°	5947.6	3666.2	926.5	592.8	533.0	483.2	488.2	503.1	547.9	592.8	597.8
45°	6395.9	3855.5	866.7	567.9	508.1	468.2	458.3	468.2	518.1	567.9	577.8
47.5°	7237.8	4283.9	802.0	543.0	483.2	458.3	418.4	428.4	473.2	528.0	533.0
50°	8851.7	5195.5	767.1	518.1	463.3	423.4	378.6	378.6	413.4	463.3	463.3
52.5°	11367.2	6829.3	787.0	498.1	438.4	388.5	343.7	338.7	358.7	393.5	393.5
55°	14082.0	8622.6	861.8	478.2	408.5	368.6	318.8	293.9	308.8	328.8	328.8
57.5°	16233.9	9524.2	1066.0	468.2	373.6	353.7	288.9	254.0	269.0	288.9	288.9
60°	17180.4	8996.2	1295.1	478.2	348.7	328.8	259.0	224.2	249.1	269.0	274.0
62.5°	16413.3	7407.1	1389.8	453.3	313.8	293.9	254.0	209.2	239.1	254.0	259.0
65°	14754.5	5628.8	1085.9	393.5	288.9	254.0	229.1	199.3	224.2	239.1	239.1
66°	13967.5	4906.5	926.5	363.6	279.0	239.1	219.2	199.3	219.2	229.1	234.1
67.5°	12747.0	3870.4	687.4	318.8	259.0	219.2	204.2	189.3	209.2	219.2	219.2
70°	9967.5	2306.3	413.4	249.1	224.2	194.3	184.3	174.3	189.3	194.3	194.3
72.5°	6241.5	1095.9	264.0	184.3	189.3	184.3	154.4	164.4	169.4	174.3	174.3
75°	3023.6	433.4	179.3	134.5	154.4	174.3	124.5	144.5	149.4	159.4	154.4
77.5°	841.8	209.2	114.6	99.6	134.5	134.5	94.6	114.6	134.5	169.4	154.4
80°	244.1	134.5	74.7	74.7	94.6	94.6	64.8	79.7	89.7	99.6	104.6
82.5°	169.4	89.7	49.8	54.8	54.8	59.8	39.9	39.9	49.8	49.8	54.8
85°	134.5	39.9	29.9	34.9	24.9	29.9	19.9	19.9	24.9	19.9	19.9
87.5°	54.8	19.9	19.9	19.9	14.9	14.9	10.0	5.0	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)