

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: P841384

Luminaire Tested: **ARCH4-170-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27325 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 169.8
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



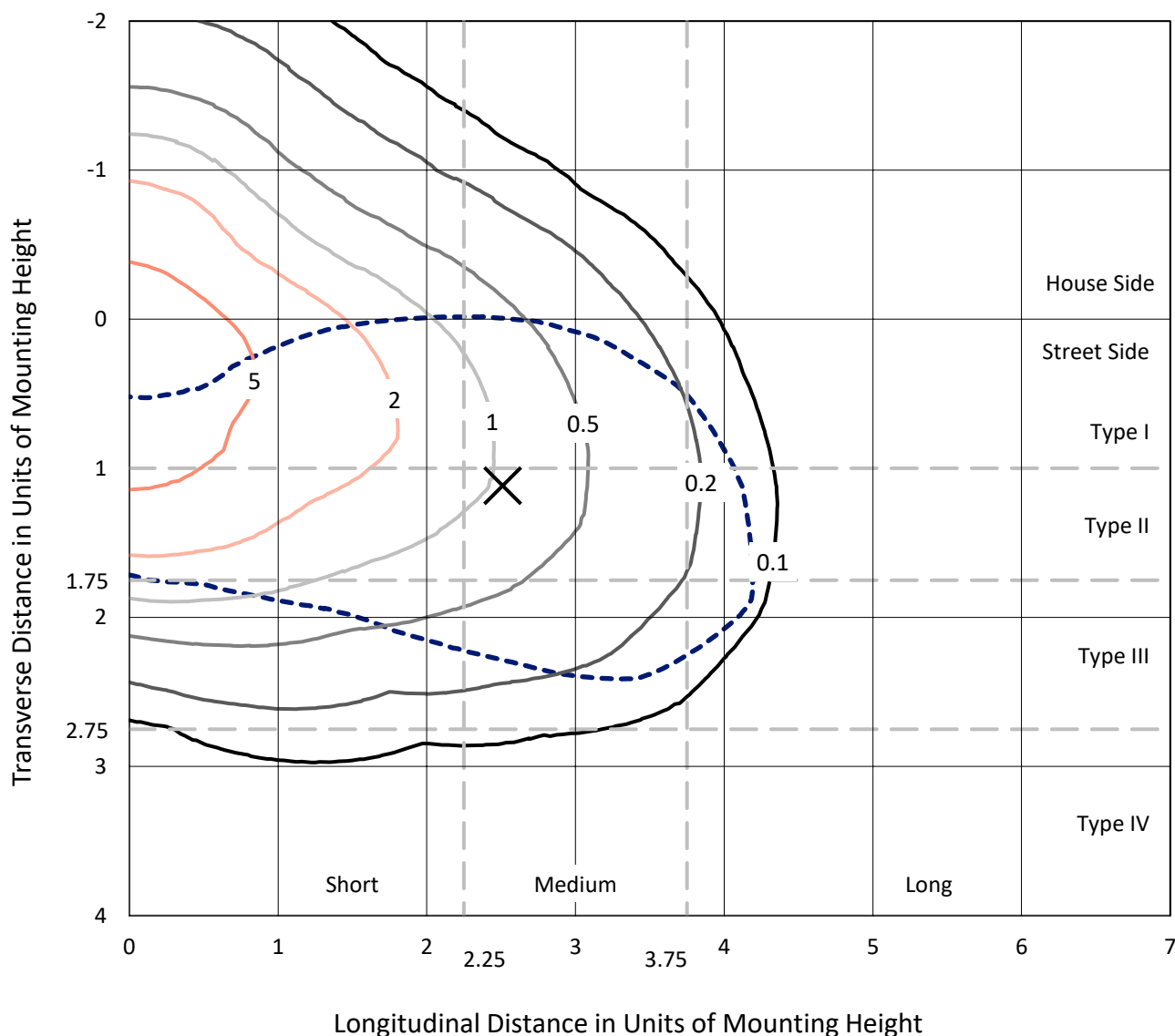
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

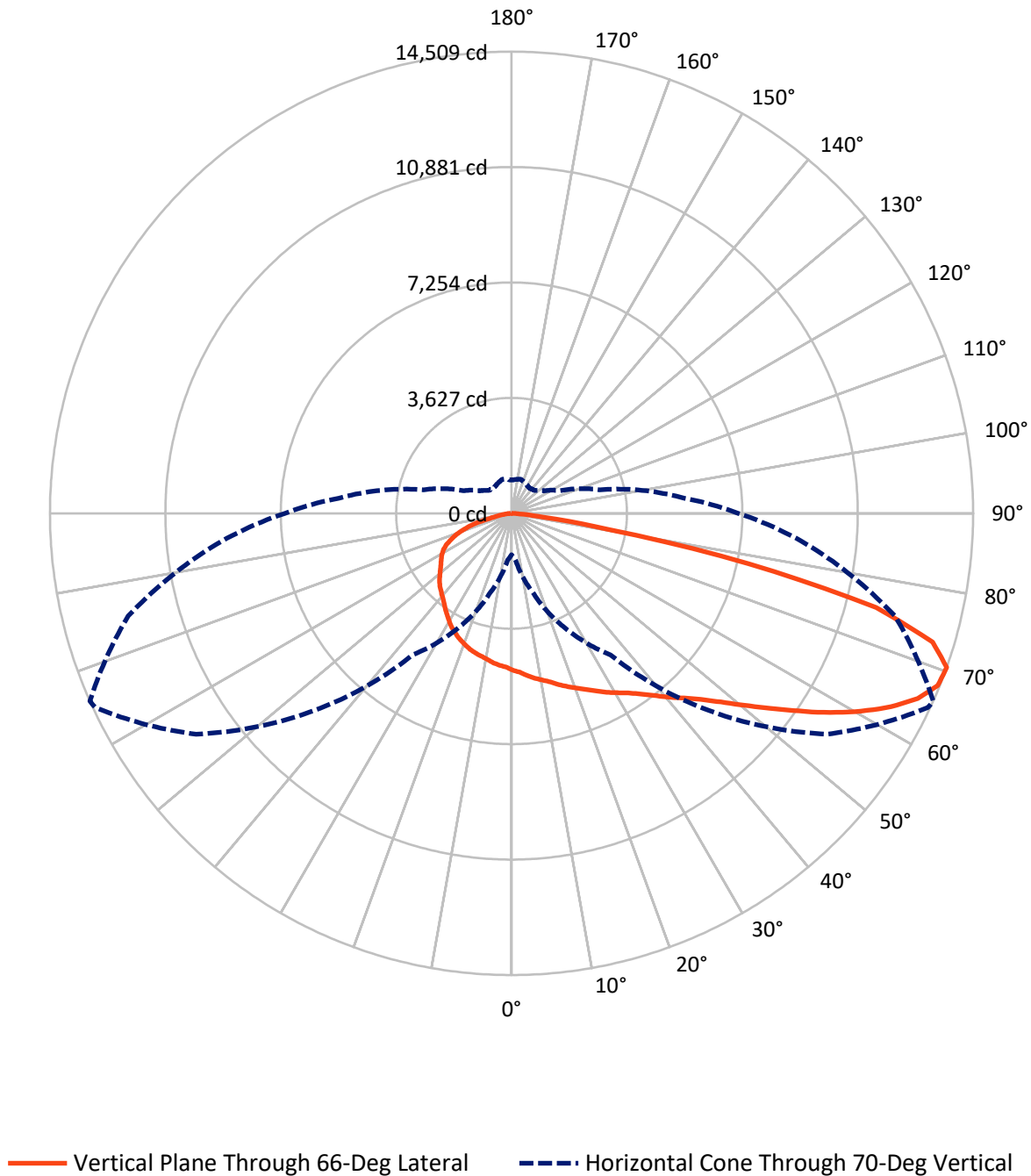


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7240.5	0.0	7240.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	20084.5	0.0	20084.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	27325.0	0.0	27325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.9	1.7
10°-20°	1421.4	5.2
20°-30°	2382.8	8.7
30°-40°	3567.8	13.1
40°-50°	4770.2	17.5
50°-60°	5569.4	20.4
60°-70°	5537.9	20.3
70°-80°	3278.5	12.0
80°-90°	323.1	1.2
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°	27325.0	100.0
0°-180°	27325.0	100.0

Coefficient of Utilization



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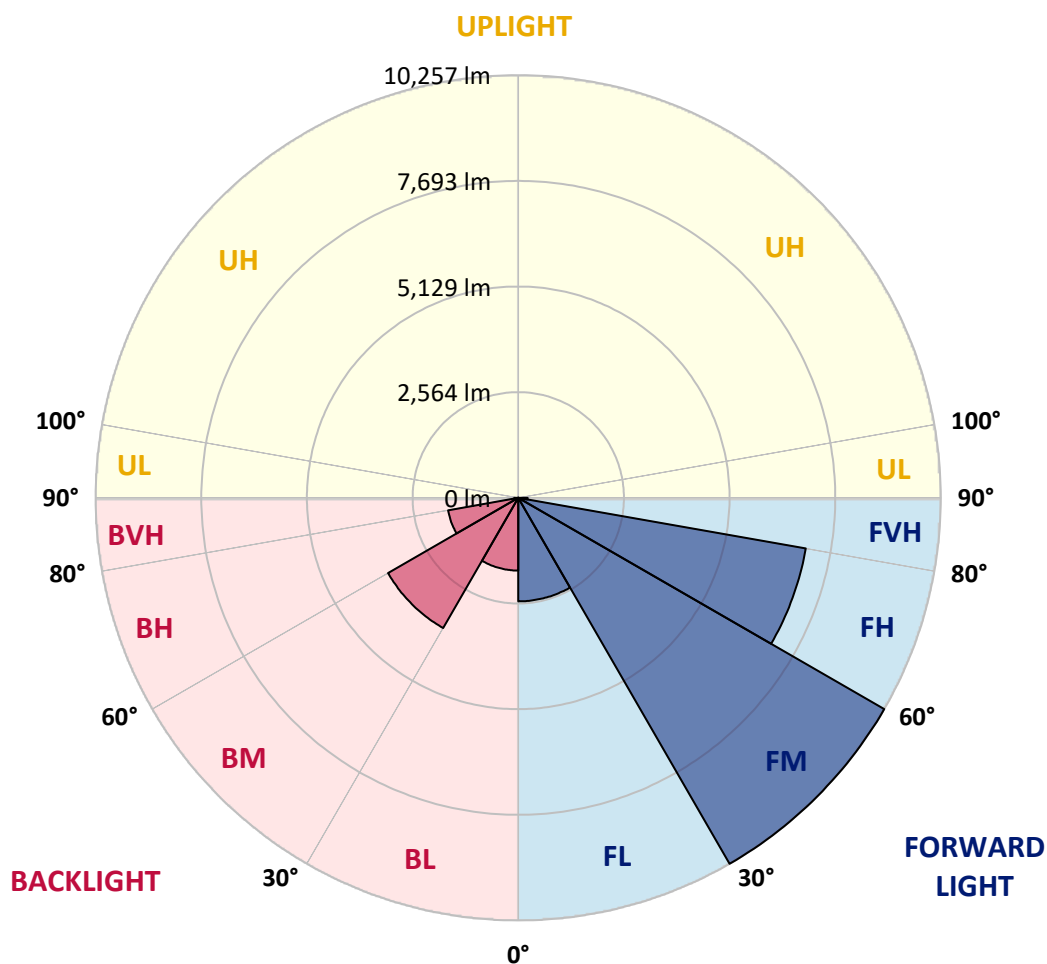
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2513.2	9.2			
FM	(30°-60°)	10257.4	37.5			
FH	(60°-80°)	7086.8	25.9			G3/7500
FVH	(80°-90°)	227.1	0.8			G3/500
BL	(0°-30°)	1764.9	6.5	B3/2500		
BM	(30°-60°)	3650.0	13.4	B3/5000		
BH	(60°-80°)	1729.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	96.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5
2.5°	5112.8	5104.8	5100.8	5084.6	5048.4	5064.5	5028.2	5004.1	5000.0	4943.6	4911.4
5°	5322.4	5318.3	5310.3	5286.1	5229.7	5237.7	5177.3	5133.0	5120.9	5032.3	4963.8
7.5°	5499.6	5491.6	5487.5	5455.3	5394.9	5390.9	5318.3	5253.9	5233.7	5112.8	5008.1
10°	5636.6	5624.5	5632.6	5600.4	5535.9	5523.8	5431.1	5346.5	5326.4	5173.3	5028.2
12.5°	5753.5	5745.4	5757.5	5729.3	5676.9	5664.8	5572.2	5463.4	5439.2	5261.9	5072.6
15°	5882.4	5854.2	5878.4	5866.3	5830.0	5826.0	5741.4	5620.5	5588.3	5374.7	5141.1
17.5°	5950.9	5934.8	5963.0	5967.0	5950.9	5979.1	5898.5	5753.5	5725.3	5479.5	5201.5
20°	5999.2	5975.1	6007.3	6031.5	6043.6	6100.0	6035.5	5894.5	5862.2	5580.2	5257.9
22.5°	6164.4	6112.0	6116.1	6132.2	6140.3	6220.8	6180.5	6043.6	6011.3	5705.1	5326.4
25°	6579.4	6474.7	6406.2	6357.8	6301.4	6369.9	6345.7	6212.8	6184.6	5854.2	5411.0
27.5°	7224.1	7091.1	6954.1	6813.1	6591.5	6563.3	6523.0	6402.1	6369.9	6003.3	5495.6
30°	7957.3	7824.4	7663.2	7437.6	7022.6	6805.0	6712.4	6579.4	6543.2	6136.2	5576.2
32.5°	8686.6	8569.8	8408.6	8134.6	7542.4	7099.2	6901.7	6764.8	6728.5	6281.3	5672.9
35°	9254.7	9182.2	9077.4	8735.0	8058.1	7445.7	7175.7	7010.5	6970.2	6510.9	5850.2
37.5°	9714.0	9661.6	9573.0	9214.4	8432.8	7792.2	7490.0	7300.6	7256.3	6760.7	6039.5
40°	10390.9	10253.9	10181.4	9661.6	8759.1	8106.4	7844.5	7647.1	7598.8	7026.6	6192.6
42.5°	10967.0	10866.3	10777.7	10060.5	9069.4	8376.4	8178.9	7997.6	7933.2	7288.5	6357.8
45°	11063.7	11104.0	11059.7	10257.9	9560.9	8642.3	8517.4	8400.5	8340.1	7643.1	6607.6
47.5°	11067.8	11067.8	10805.9	10370.7	10169.3	8940.4	8880.0	8920.3	8855.8	8094.3	6905.8
50°	10777.7	10830.0	10693.1	10398.9	10330.4	9238.6	9323.2	9540.8	9476.3	8573.8	7228.1
52.5°	10177.3	10350.6	10346.6	10354.6	10096.8	9492.4	9790.6	10286.1	10177.3	9113.7	7570.6
55°	9117.7	9464.2	9774.4	10040.4	9895.3	9645.5	10362.7	11079.8	10967.0	9718.0	7917.1
57.5°	8211.2	8432.8	8819.6	9573.0	9657.6	9778.5	10898.5	11909.8	11809.1	10386.9	8279.7
60°	7175.7	7481.9	7868.7	8940.4	9367.5	9951.7	11486.8	12719.7	12623.0	11063.7	8630.2
62.5°	5584.2	5979.1	6752.7	7969.4	8944.5	10060.5	11950.1	13432.8	13388.5	11704.3	8944.5
65°	3892.0	4242.6	5326.4	6776.8	8271.6	10012.2	12320.8	14069.4	14029.1	12228.1	9166.1
67.5°	2272.4	2679.3	3904.1	5455.3	7083.0	9677.7	12441.7	14444.1	14444.1	12546.4	9226.5
70°	1297.3	1486.7	2574.6	3976.7	5431.1	8755.1	12103.2	14440.1	14508.6	12473.9	8976.7
72.5°	906.5	991.1	1732.5	2675.3	3682.5	7083.0	11216.8	13743.0	13835.7	11789.0	8122.5
75°	705.1	765.5	1220.8	1825.2	2320.7	4810.7	9278.9	11587.5	11833.3	10048.4	6567.3
77.5°	535.9	580.2	713.1	1140.2	1486.7	2763.9	6124.1	7598.8	7614.9	6152.3	3521.4
80°	390.8	435.1	475.4	697.0	789.7	1293.3	2312.7	3174.9	3086.2	2977.5	1905.7
82.5°	233.7	278.0	290.1	378.7	386.8	552.0	809.8	1023.4	983.1	1309.4	894.4
85°	100.7	141.0	149.1	173.2	165.2	225.6	322.3	269.9	241.7	278.0	193.4
87.5°	24.2	40.3	40.3	44.3	36.3	56.4	60.4	44.3	40.3	48.3	48.3
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°	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5	4931.5
2.5°	4903.3	4891.2	4895.3	4826.8	4806.6	4786.5	4774.4	4766.3	4758.3	4770.4	4782.5
5°	4939.6	4911.4	4879.2	4778.4	4738.1	4693.8	4661.6	4633.4	4621.3	4621.3	4633.4
7.5°	4967.8	4919.5	4851.0	4718.0	4645.5	4585.0	4532.7	4496.4	4476.3	4476.3	4488.3
10°	4971.8	4903.3	4794.6	4633.4	4536.7	4448.1	4387.6	4347.3	4319.1	4319.1	4327.2
12.5°	4996.0	4903.3	4762.3	4568.9	4448.1	4339.3	4266.7	4206.3	4194.2	4194.2	4202.3
15°	5036.3	4923.5	4742.2	4512.5	4367.5	4242.6	4162.0	4097.5	4073.4	4089.5	4093.5
17.5°	5072.6	4935.6	4705.9	4440.0	4266.7	4129.8	4041.1	3984.7	3952.5	3988.7	3988.7
20°	5096.7	4935.6	4653.5	4347.3	4158.0	4004.9	3920.3	3851.8	3827.6	3871.9	3875.9
22.5°	5133.0	4931.5	4597.1	4254.7	4041.1	3880.0	3795.4	3743.0	3730.9	3779.2	3795.4
25°	5173.3	4939.6	4536.7	4149.9	3912.2	3755.1	3690.6	3666.4	3674.5	3734.9	3755.1
27.5°	5217.6	4955.7	4476.3	4033.1	3771.2	3630.2	3593.9	3606.0	3638.2	3714.8	3738.9
30°	5257.9	4959.7	4391.6	3896.1	3610.0	3477.1	3493.2	3545.6	3593.9	3670.5	3698.7
32.5°	5310.3	4963.8	4303.0	3747.0	3436.8	3340.1	3412.6	3497.2	3545.6	3618.1	3650.3
35°	5439.2	5032.3	4234.5	3602.0	3275.6	3223.2	3344.1	3452.9	3481.1	3545.6	3573.8
37.5°	5588.3	5145.1	4198.3	3452.9	3118.5	3106.4	3259.5	3368.3	3376.3	3416.6	3444.8
40°	5680.9	5193.4	4158.0	3328.0	2977.5	2985.5	3142.6	3227.3	3211.1	3239.3	3259.5
42.5°	5773.6	5209.5	4073.4	3223.2	2844.5	2852.6	2973.4	3033.9	3041.9	3102.4	3130.6
45°	5930.7	5253.9	3980.7	3126.5	2723.6	2695.4	2767.9	2848.5	2953.3	3070.1	3102.4
47.5°	6140.3	5346.5	3884.0	3009.7	2606.8	2514.1	2542.3	2683.3	2792.1	2900.9	2921.1
50°	6353.8	5439.2	3795.4	2868.7	2489.9	2320.7	2332.8	2461.7	2550.4	2635.0	2647.1
52.5°	6563.3	5519.8	3718.8	2735.7	2357.0	2091.1	2139.4	2272.4	2332.8	2373.1	2385.2
55°	6772.8	5588.3	3650.3	2622.9	2203.9	1909.8	1954.1	2079.0	2139.4	2159.6	2167.6
57.5°	6990.4	5668.9	3597.9	2526.2	2030.6	1748.6	1776.8	1865.4	1921.9	1946.0	1938.0
60°	7171.7	5737.3	3569.7	2425.5	1857.4	1599.5	1591.5	1672.0	1752.6	1776.8	1768.7
62.5°	7312.7	5781.7	3525.4	2296.6	1704.3	1450.5	1410.2	1514.9	1599.5	1615.6	1627.7
65°	7389.3	5785.7	3416.6	2131.4	1547.1	1289.3	1261.1	1365.8	1418.2	1434.3	1434.3
67.5°	7377.2	5721.2	3203.1	1909.8	1402.1	1144.2	1120.1	1184.5	1261.1	1273.2	1261.1
70°	7127.4	5455.3	2860.6	1676.1	1228.9	1015.3	971.0	1035.5	1108.0	1063.7	1043.5
72.5°	6418.3	4766.3	2357.0	1418.2	1035.5	854.2	834.0	898.5	902.5	910.6	890.4
75°	5064.5	3549.6	1764.7	1104.0	838.0	717.2	713.1	701.1	717.2	749.4	725.2
77.5°	2659.2	1772.8	954.9	676.9	608.4	576.2	547.9	543.9	592.3	612.4	588.2
80°	1442.4	995.2	547.9	406.9	370.7	374.7	411.0	402.9	455.3	467.4	447.2
82.5°	628.5	471.4	269.9	245.8	245.8	241.7	253.8	282.0	338.4	338.4	269.9
85°	137.0	116.8	104.8	120.9	137.0	137.0	137.0	137.0	96.7	52.4	36.3
87.5°	44.3	44.3	44.3	48.3	52.4	52.4	44.3	32.2	20.1	4.0	0.0
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)