

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: P1211421

Luminaire Tested: **ARCH4-270-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37254 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

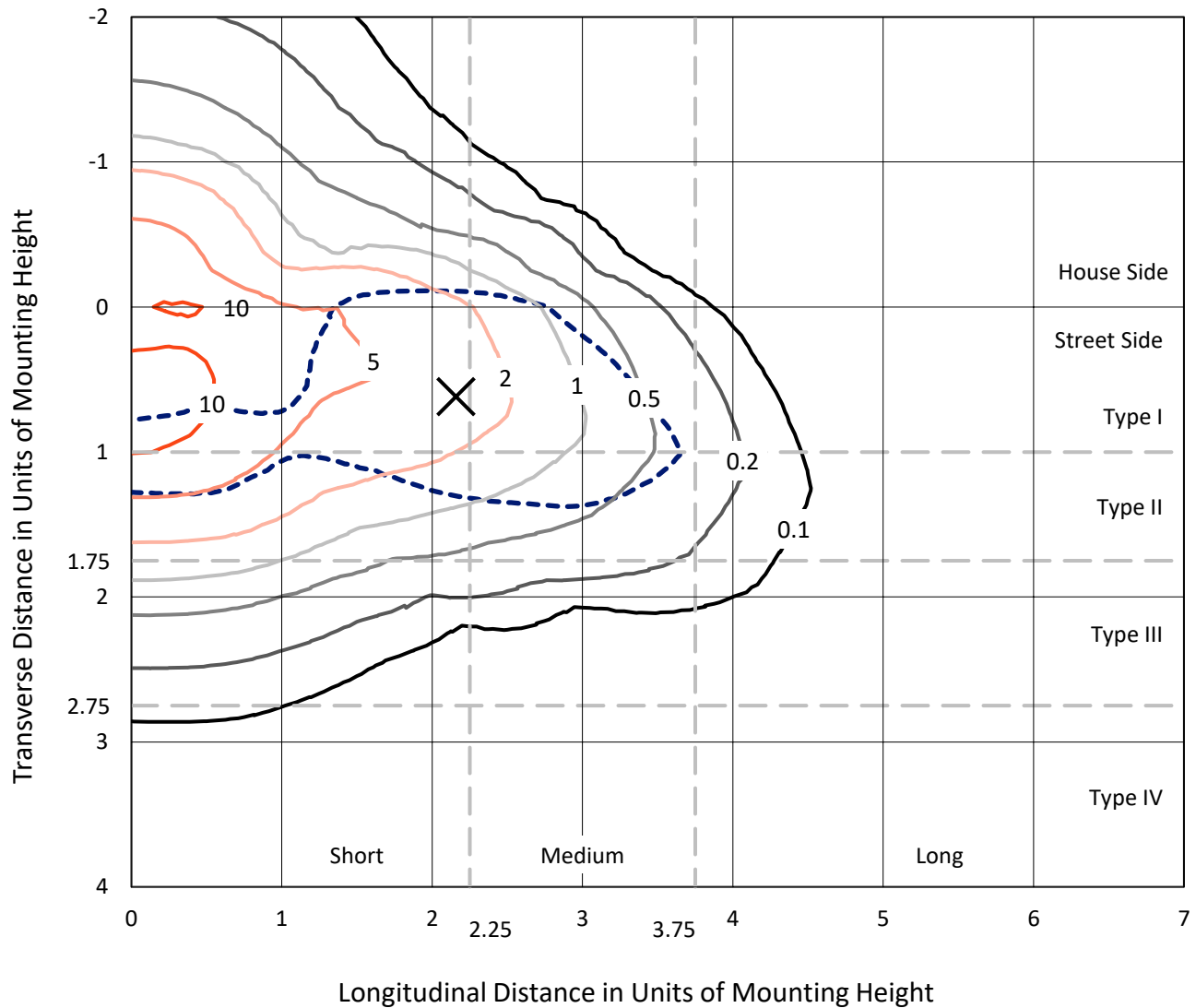


REPORT NUMBER: P1211421

CATALOG NUMBER: ARCH4-270-730-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

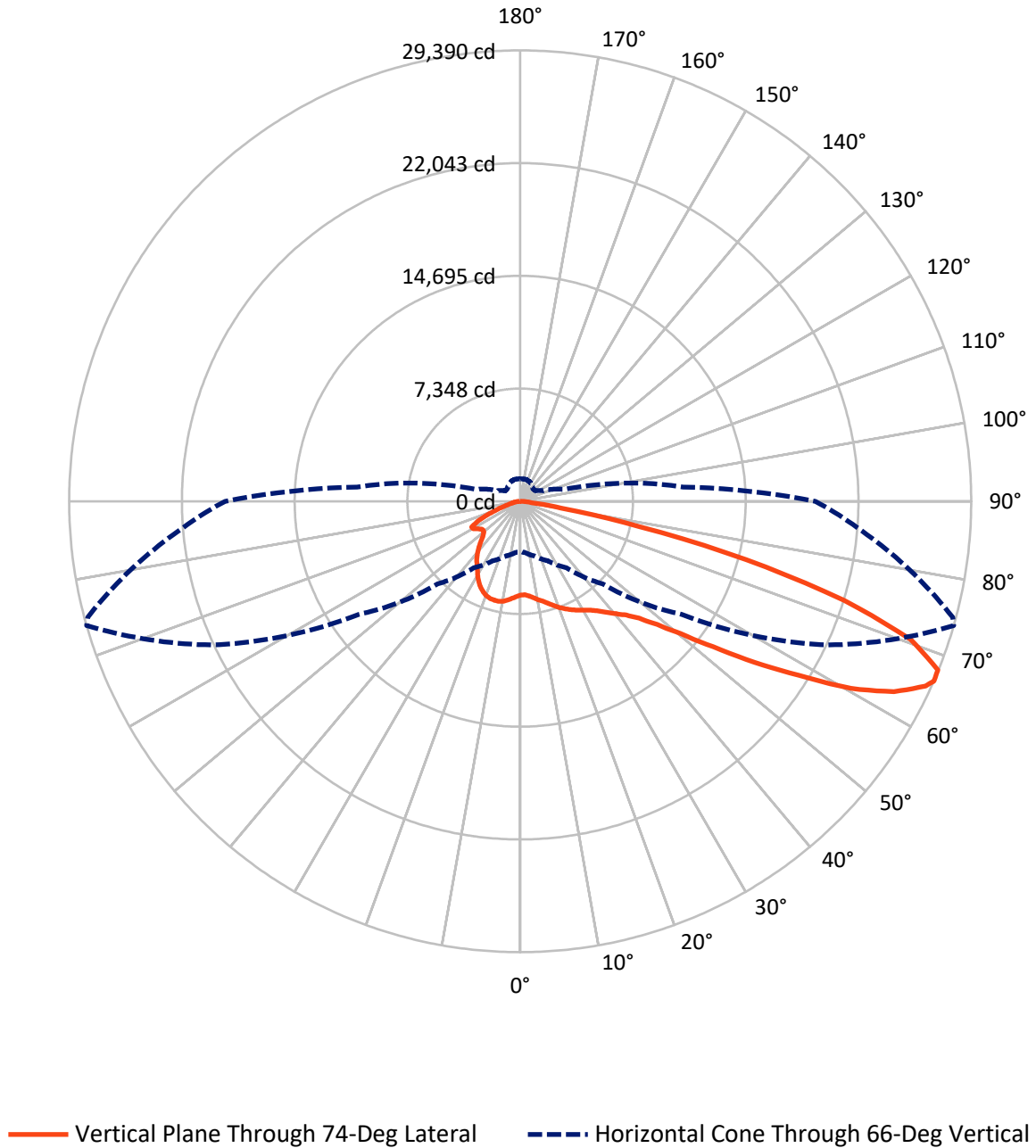
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Short - N/A

REPORT NUMBER: P1211421
CATALOG NUMBER: ARCH4-270-730-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211421

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9072.4	0.0	9072.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	28181.6	0.0	28181.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	37254.0	0.0	37254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.6	1.6
10°-20°	1791.5	4.8
20°-30°	3361.8	9.0
30°-40°	5171.3	13.9
40°-50°	6955.8	18.7
50°-60°	8226.0	22.1
60°-70°	7609.5	20.4
70°-80°	3201.3	8.6
80°-90°	354.2	1.0
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°	37254.0	100.0
0°-180°	37254.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211421

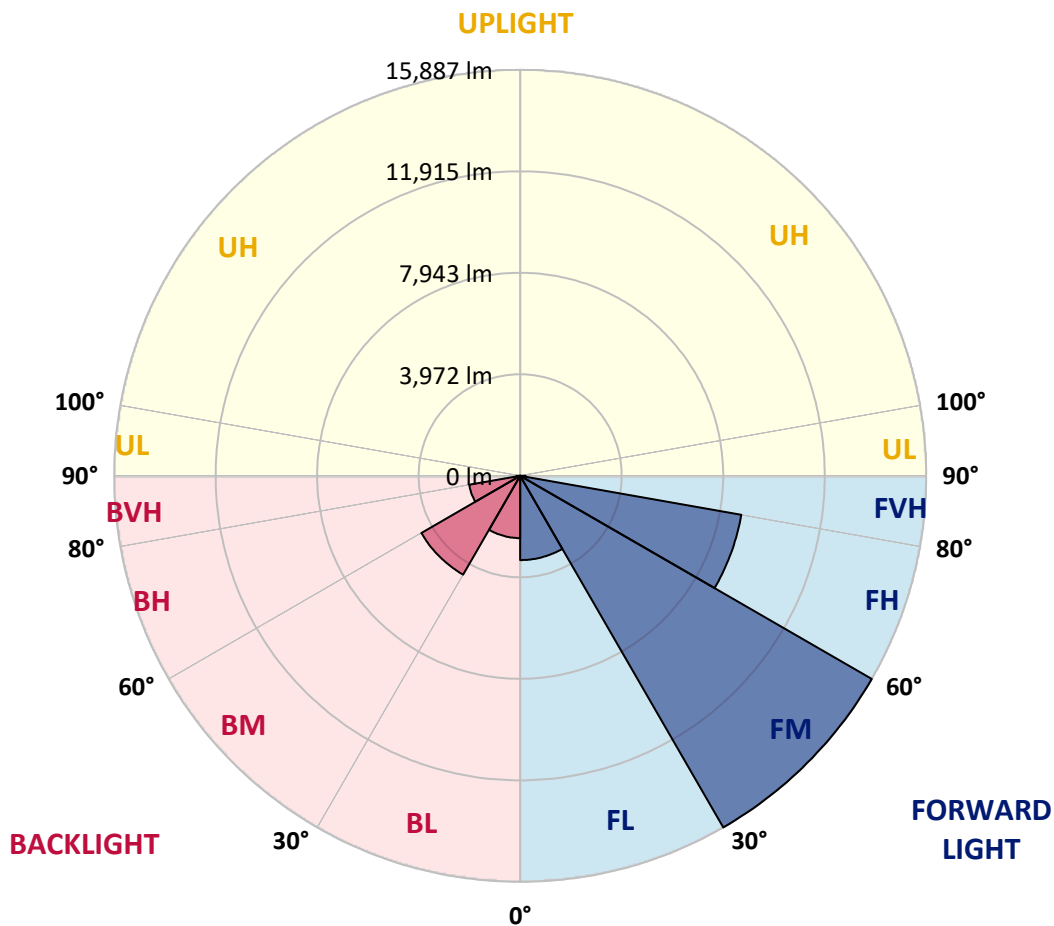
CATALOG NUMBER: ARCH4-270-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3297.4	8.9			
FM	(30°-60°)	15886.7	42.6			
FH	(60°-80°)	8785.5	23.6			G4/12000
FVH	(80°-90°)	211.9	0.6			G2/225
BL	(0°-30°)	2438.5	6.5	B3/2500		
BM	(30°-60°)	4466.3	12.0	B3/5000		
BH	(60°-80°)	2025.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	142.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P1211421

CATALOG NUMBER: ARCH4-270-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2
2.5°	6088.0	6078.4	6097.6	6126.3	6140.7	6116.8	6107.2	6102.4	6102.4	6088.0	6112.0
5°	5800.4	5795.6	5838.7	5891.5	5992.1	6064.0	6159.9	6217.4	6198.2	6169.5	6188.7
7.5°	5426.5	5416.9	5469.6	5570.3	5709.3	5867.5	6102.4	6284.5	6356.4	6346.9	6342.1
10°	5570.3	5560.7	5555.9	5527.1	5575.1	5728.5	5972.9	6294.1	6538.6	6543.4	6548.2
12.5°	6068.8	6092.8	6068.8	5977.7	5872.3	5814.8	5958.6	6318.1	6692.0	6720.8	6840.6
15°	6749.5	6725.6	6677.6	6572.2	6409.2	6236.6	6131.1	6428.3	6912.5	6936.5	7200.1
17.5°	7348.7	7367.9	7339.1	7238.5	7046.7	6821.4	6500.3	6620.1	7147.4	7214.5	7583.6
20°	8000.7	8077.4	8039.0	7914.4	7756.2	7420.6	7018.0	6898.1	7406.3	7454.2	7981.5
22.5°	8753.3	8834.8	8762.9	8643.0	8513.6	8101.3	7583.6	7238.5	7622.0	7722.6	8365.0
25°	9654.5	9731.2	9664.1	9477.1	9314.2	8810.8	8192.4	7622.0	7832.9	7943.2	8676.6
27.5°	10368.8	10426.3	10488.6	10378.4	10129.1	9606.6	8825.2	8019.9	8043.8	8158.9	8964.2
30°	11006.3	11150.1	11202.9	11217.2	11006.3	10421.5	9472.3	8432.1	8226.0	8345.8	9251.8
32.5°	11878.8	12094.5	12008.2	12094.5	11969.9	11188.5	10143.5	8858.8	8460.9	8571.1	9525.1
35°	13153.9	13326.5	13101.2	13034.1	12832.7	11965.1	10790.6	9299.8	8772.5	8892.3	9783.9
37.5°	14524.9	14721.4	14395.5	14127.0	13743.5	12732.1	11346.7	9879.8	9203.9	9299.8	10023.6
40°	15723.3	15886.3	15603.5	15248.7	14606.4	13408.0	11826.0	10287.3	9635.3	9755.2	10301.7
42.5°	16830.7	16936.1	16619.7	16279.4	15421.3	14016.8	12343.8	10718.7	10138.7	10253.7	10527.0
45°	17952.4	18033.9	17592.9	17108.7	16102.0	14572.8	12914.2	11322.7	10876.9	11030.3	10891.3
47.5°	18153.7	18177.7	18101.0	17775.0	16638.9	15104.9	13618.9	12132.8	12003.4	12171.2	11519.3
50°	16758.8	16974.5	17449.1	17770.2	16854.6	15550.8	14323.6	13292.9	13556.6	13772.3	12823.1
52.5°	14050.3	14256.5	15354.2	16571.8	16336.9	15651.4	15081.0	14764.6	15747.3	16006.2	14596.8
55°	11193.3	11375.4	12535.5	14290.0	14663.9	15191.2	15891.1	16643.7	18542.0	18714.6	16543.0
57.5°	9218.3	9318.9	10148.3	11835.6	12434.8	13719.6	16327.3	18877.6	21384.7	21648.3	18235.2
60°	7559.7	7669.9	8288.3	9678.5	10474.2	11615.1	15982.2	21082.7	24778.6	24778.6	20406.8
62.5°	5690.1	5786.0	6361.2	7449.4	8786.8	9831.9	14879.6	22544.8	27338.5	27223.4	21979.1
65°	3906.9	3983.6	4400.6	5124.5	6327.7	8379.4	13374.4	22563.9	29035.4	28882.0	22650.2
66°	3278.9	3346.0	3700.7	4285.6	5297.0	7602.8	12842.3	22156.5	29390.2	29174.4	22367.4
67.5°	2588.6	2636.5	2871.4	3216.6	3882.9	6155.1	12003.4	21001.2	29356.6	29227.2	21648.3
70°	1850.4	1883.9	2056.5	2128.4	2296.2	3561.7	9534.7	18393.4	27002.9	27041.2	18820.1
72.5°	1433.3	1486.0	1591.5	1605.9	1567.5	1893.5	5786.0	15344.6	22089.4	22075.0	13968.8
75°	1155.3	1184.0	1236.8	1265.5	1255.9	1222.4	2449.6	11447.3	15205.6	15383.0	7823.3
77.5°	910.8	906.0	953.9	992.3	1021.1	958.7	1121.7	6711.2	7971.9	7746.6	2938.5
80°	671.1	671.1	738.2	752.6	795.8	805.3	747.8	2588.6	2737.2	2487.9	762.2
82.5°	441.0	441.0	512.9	522.5	565.7	628.0	541.7	776.6	757.4	719.1	345.1
85°	239.7	230.1	254.1	287.6	311.6	369.1	326.0	388.3	397.9	393.1	230.1
87.5°	47.9	43.1	67.1	76.7	86.3	115.0	105.5	158.2	220.5	215.7	100.7
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: P1211421

CATALOG NUMBER: ARCH4-270-730-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2	6107.2
2.5°	6145.5	6140.7	6193.5	6255.8	6327.7	6370.8	6390.0	6423.6	6399.6	6409.2	6437.9
5°	6236.6	6251.0	6327.7	6409.2	6442.7	6418.8	6366.0	6346.9	6303.7	6294.1	6284.5
7.5°	6370.8	6394.8	6471.5	6490.7	6390.0	6222.2	6102.4	6035.3	5963.4	5944.2	5934.6
10°	6591.3	6605.7	6624.9	6428.3	6179.1	5953.8	5805.2	5742.8	5694.9	5656.6	5666.1
12.5°	6869.4	6859.8	6711.2	6303.7	5949.0	5718.9	5618.2	5579.9	5546.3	5522.3	5517.5
15°	7219.3	7152.2	6725.6	6131.1	5733.3	5541.5	5469.6	5455.2	5416.9	5416.9	5412.1
17.5°	7574.0	7401.5	6716.0	5949.0	5527.1	5421.7	5378.5	5368.9	5359.4	5354.6	5368.9
20°	7928.8	7622.0	6639.3	5723.7	5383.3	5321.0	5311.4	5316.2	5306.6	5321.0	5311.4
22.5°	8240.4	7765.8	6495.5	5484.0	5282.7	5277.9	5253.9	5263.5	5297.0	5301.8	5316.2
25°	8480.0	7818.5	6284.5	5263.5	5210.7	5201.2	5229.9	5268.3	5297.0	5301.8	5325.8
27.5°	8676.6	7789.8	6020.9	5090.9	5086.1	5138.8	5225.1	5239.5	5244.3	5244.3	5225.1
30°	8825.2	7727.4	5685.3	4899.2	4923.1	5052.6	5134.0	5134.0	5095.7	5086.1	5114.9
32.5°	8858.8	7645.9	5321.0	4702.6	4741.0	4894.4	4995.0	4961.5	4918.3	4918.3	4937.5
35°	8887.5	7535.7	5028.6	4434.2	4491.7	4673.9	4769.7	4702.6	4654.7	4640.3	4635.5
37.5°	8877.9	7492.5	4764.9	4093.8	4170.5	4347.9	4410.2	4347.9	4276.0	4242.4	4285.6
40°	8887.5	7463.8	4434.2	3719.9	3796.6	3902.1	3983.6	3935.6	3868.5	3782.2	3825.4
42.5°	8945.0	7502.1	4069.8	3355.6	3355.6	3413.1	3552.1	3518.6	3355.6	3322.0	3360.4
45°	9251.8	7708.3	3705.5	2991.3	2938.5	2976.9	3120.7	2976.9	2876.2	2876.2	2909.8
47.5°	9994.9	8091.8	3384.3	2670.1	2545.5	2622.2	2660.5	2526.3	2449.6	2430.4	2464.0
50°	11509.7	8858.8	3192.6	2406.4	2253.0	2310.6	2286.6	2281.8	2205.1	2214.7	2233.9
52.5°	13810.6	10354.4	3135.1	2277.0	2085.3	2099.6	2075.7	2085.3	2070.9	2118.8	2133.2
55°	16317.7	11931.5	3207.0	2296.2	1970.2	1869.5	1879.1	1927.1	1984.6	2061.3	2075.7
57.5°	18192.1	12722.5	3393.9	2425.6	1826.4	1673.0	1697.0	1788.0	1898.3	1960.6	1994.2
60°	19587.0	12626.6	3667.2	2459.2	1653.8	1495.6	1538.8	1673.0	1768.9	1821.6	1855.2
62.5°	20042.4	12027.4	3734.3	2214.7	1428.5	1327.9	1433.3	1572.3	1615.5	1673.0	1697.0
65°	19668.5	11178.9	3245.3	1797.6	1255.9	1203.2	1356.6	1462.1	1519.6	1548.4	1553.2
66°	19227.5	10670.8	2981.7	1634.7	1193.6	1164.9	1327.9	1414.1	1471.7	1466.9	1471.7
67.5°	18259.2	9606.6	2555.0	1404.6	1102.6	1107.3	1279.9	1337.4	1356.6	1342.2	1342.2
70°	14965.9	6763.9	1831.2	1064.2	968.3	1035.4	1150.5	1164.9	1208.0	1188.8	1188.8
72.5°	9227.9	3322.0	1227.2	814.9	862.9	968.3	963.5	1011.5	1112.1	1140.9	1160.1
75°	4534.8	1347.0	810.1	690.3	771.8	810.1	800.5	920.4	1064.2	1188.8	1232.0
77.5°	1720.9	671.1	565.7	604.0	623.2	608.8	637.6	834.1	1064.2	1289.5	1332.6
80°	532.1	465.0	445.8	498.5	469.8	445.8	479.4	690.3	901.2	977.9	977.9
82.5°	321.2	364.3	345.1	340.4	316.4	321.2	345.1	493.8	695.1	728.6	728.6
85°	225.3	239.7	196.5	187.0	182.2	177.4	177.4	287.6	412.3	407.5	421.8
87.5°	86.3	95.9	71.9	71.9	67.1	47.9	38.3	47.9	47.9	33.6	24.0
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)