

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: P1211461

Luminaire Tested: **ARCH4-280-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211461
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: ARCH4-280-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40644 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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

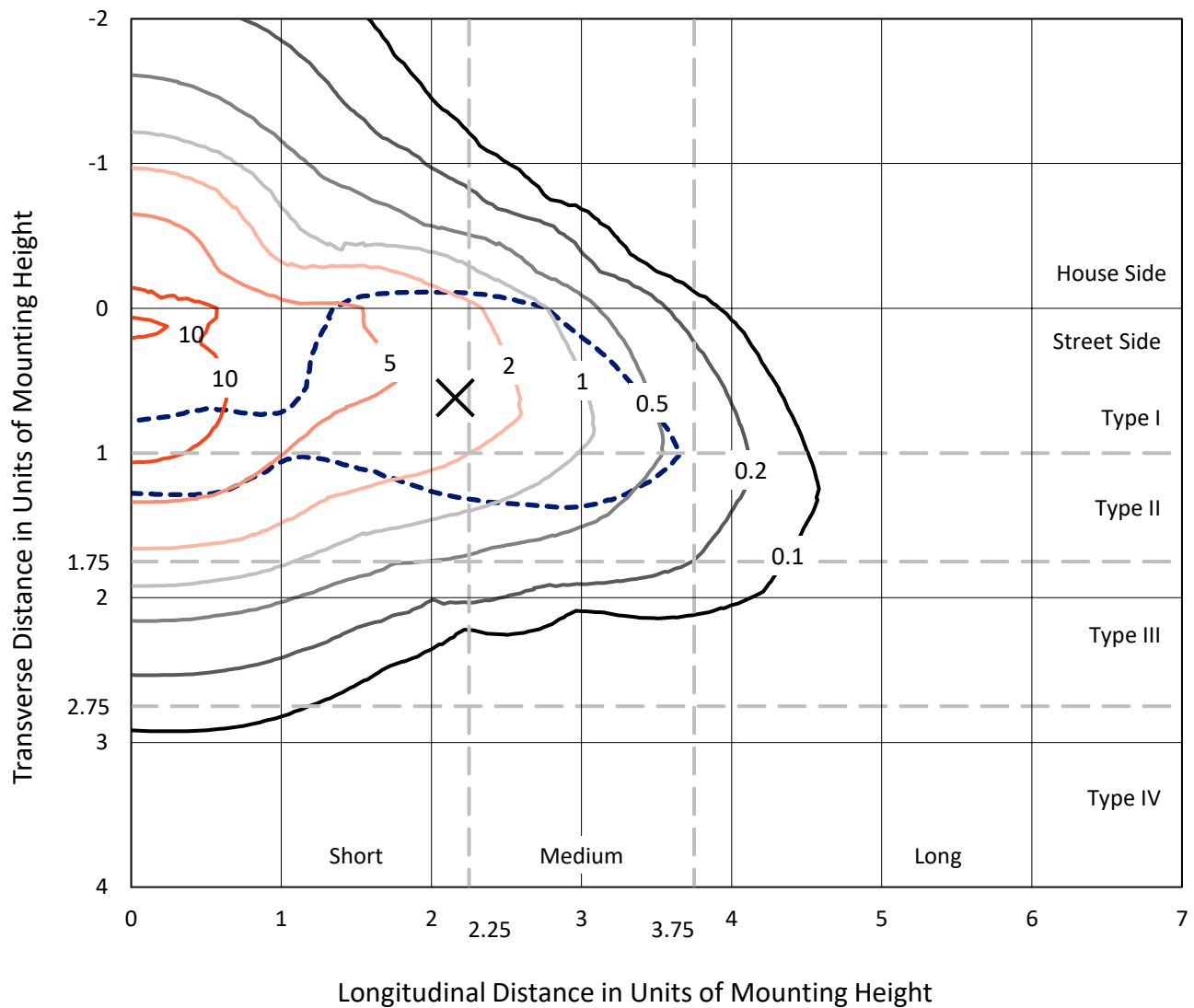


REPORT NUMBER: P1211461

CATALOG NUMBER: ARCH4-280-740-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

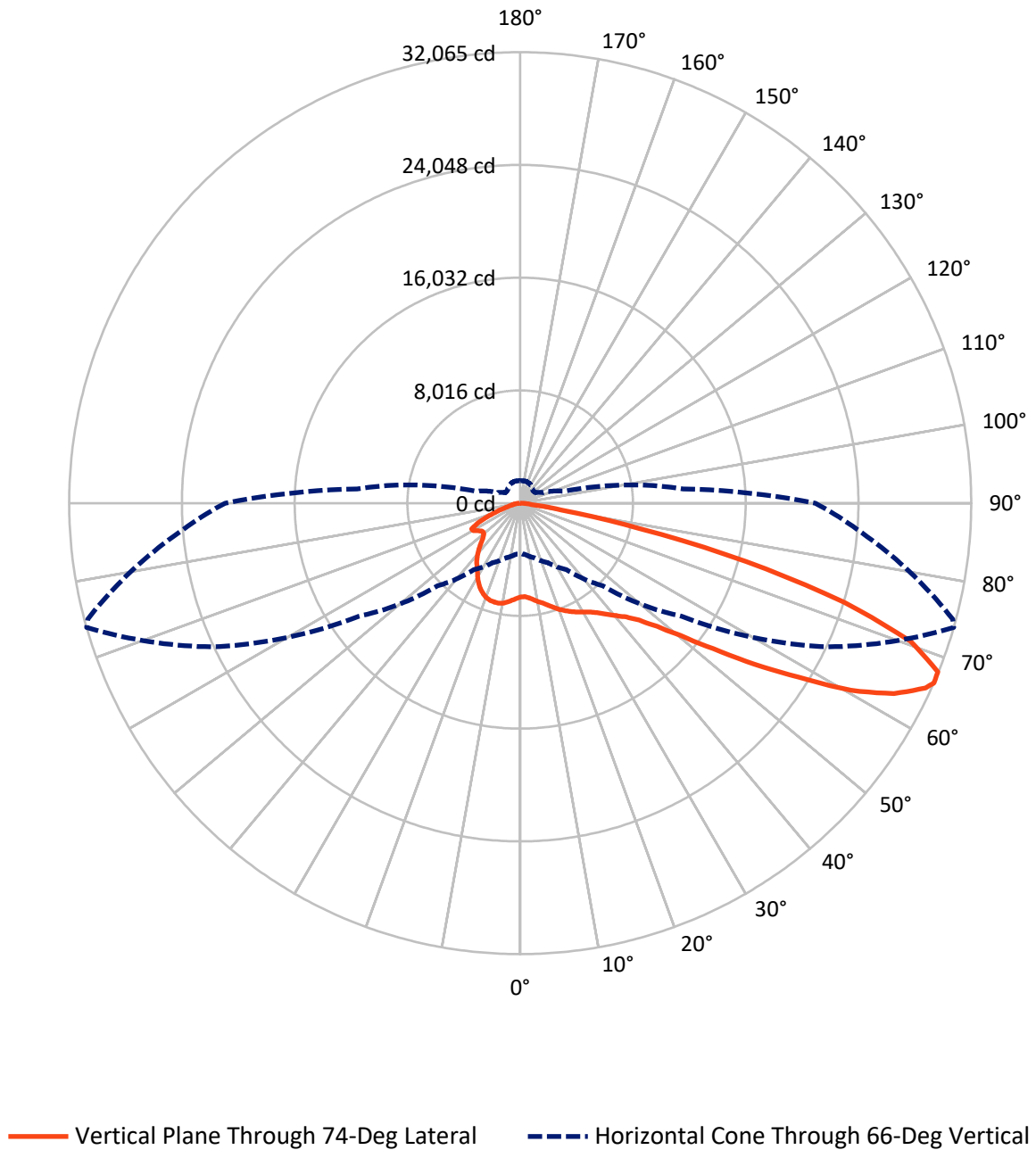
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Short - N/A

REPORT NUMBER: P1211461
CATALOG NUMBER: ARCH4-280-740-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211461

CATALOG NUMBER: ARCH4-280-740-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9897.9	0.0	9897.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	30746.1	0.0	30746.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	40644.0	0.0	40644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.6	1.6
10°-20°	1954.5	4.8
20°-30°	3667.7	9.0
30°-40°	5641.8	13.9
40°-50°	7588.7	18.7
50°-60°	8974.6	22.1
60°-70°	8302.0	20.4
70°-80°	3492.6	8.6
80°-90°	386.5	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°	40644.0	100.0
0°-180°	40644.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211461

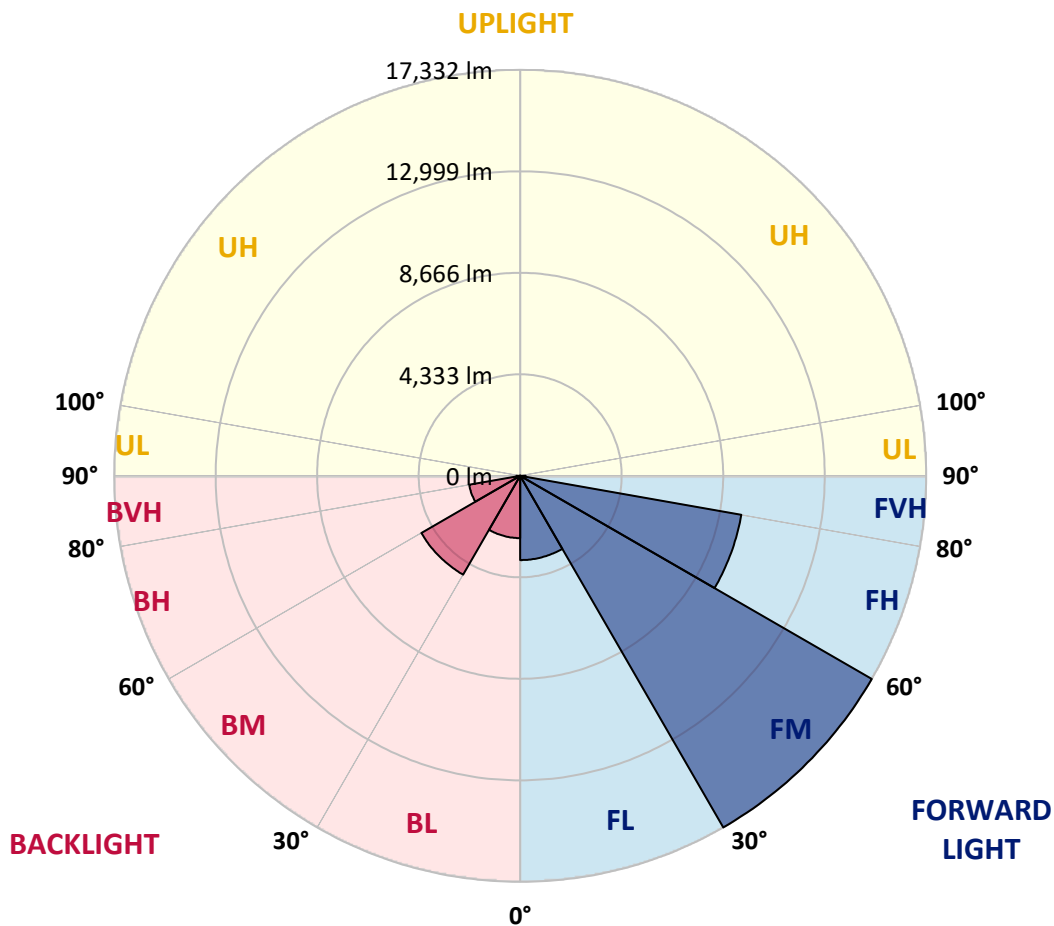
CATALOG NUMBER: ARCH4-280-740-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3597.5	8.9			
FM	(30°-60°)	17332.4	42.6			
FH	(60°-80°)	9585.0	23.6			G4/12000
FVH	(80°-90°)	231.2	0.6			G3/500
BL	(0°-30°)	2660.3	6.5	B4/5000		
BM	(30°-60°)	4872.8	12.0	B3/5000		
BH	(60°-80°)	2209.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	155.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P1211461

CATALOG NUMBER: ARCH4-280-740-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9
2.5°	6642.0	6631.5	6652.4	6683.8	6699.5	6673.4	6662.9	6657.7	6657.7	6642.0	6668.1
5°	6328.2	6323.0	6370.0	6427.6	6537.4	6615.8	6720.4	6783.2	6762.3	6730.9	6751.8
7.5°	5920.3	5909.8	5967.3	6077.2	6228.8	6401.4	6657.7	6856.4	6934.9	6924.4	6919.2
10°	6077.2	6066.7	6061.5	6030.1	6082.4	6249.7	6516.5	6866.9	7133.6	7138.8	7144.1
12.5°	6621.1	6647.2	6621.1	6521.7	6406.6	6343.9	6500.8	6893.0	7301.0	7332.3	7463.1
15°	7363.7	7337.6	7285.3	7170.2	6992.4	6804.1	6689.1	7013.3	7541.5	7567.7	7855.3
17.5°	8017.4	8038.4	8007.0	7897.2	7688.0	7442.2	7091.8	7222.5	7797.8	7871.0	8273.7
20°	8728.7	8812.4	8770.6	8634.6	8462.0	8095.9	7656.6	7525.8	8080.2	8132.5	8707.8
22.5°	9549.8	9638.7	9560.3	9429.5	9288.3	8838.5	8273.7	7897.2	8315.6	8425.4	9126.2
25°	10533.0	10616.7	10543.5	10339.5	10161.7	9612.6	8937.9	8315.6	8545.7	8666.0	9466.1
27.5°	11312.3	11375.1	11443.0	11322.8	11050.8	10480.7	9628.3	8749.6	8775.8	8901.3	9779.9
30°	12007.9	12164.8	12222.3	12238.0	12007.9	11369.8	10334.3	9199.4	8974.5	9105.3	10093.7
32.5°	12959.7	13195.1	13100.9	13195.1	13059.1	12206.6	11066.5	9664.9	9230.8	9351.1	10391.8
35°	14350.9	14539.1	14293.3	14220.1	14000.5	13053.9	11772.5	10146.0	9570.7	9701.5	10674.2
37.5°	15846.6	16061.0	15705.4	15412.5	14994.1	13890.6	12379.2	10778.8	10041.4	10146.0	10935.7
40°	17154.1	17331.9	17023.4	16636.3	15935.5	14628.1	12902.2	11223.4	10512.1	10642.9	11239.1
42.5°	18362.2	18477.3	18132.1	17760.8	16824.6	15292.3	13467.0	11694.1	11061.3	11186.8	11484.9
45°	19586.0	19674.9	19193.8	18665.5	17567.3	15898.9	14089.4	12353.0	11866.7	12034.0	11882.4
47.5°	19805.7	19831.8	19748.1	19392.5	18153.0	16479.4	14858.2	13236.9	13095.7	13278.7	12567.5
50°	18283.8	18519.1	19036.9	19387.3	18388.4	16965.8	15627.0	14502.5	14790.2	15025.5	13990.0
52.5°	15328.9	15553.7	16751.4	18079.8	17823.5	17075.6	16453.3	16108.1	17180.2	17462.7	15925.1
55°	12211.8	12410.6	13676.2	15590.4	15998.3	16573.6	17337.1	18158.2	20229.3	20417.6	18048.4
57.5°	10057.1	10166.9	11071.7	12912.6	13566.4	14968.0	17813.1	20595.4	23330.6	23618.3	19894.6
60°	8247.6	8367.9	9042.5	10559.2	11427.3	12672.1	17436.5	23001.1	27033.4	27033.4	22263.7
62.5°	6207.9	6312.5	6940.1	8127.3	9586.4	10726.5	16233.6	24596.3	29826.2	29700.6	23979.1
65°	4262.4	4346.1	4801.1	5590.8	6903.5	9141.9	14591.4	24617.2	31677.6	31510.2	24711.3
66°	3577.3	3650.5	4037.5	4675.5	5779.0	8294.6	14010.9	24172.6	32064.6	31829.2	24402.8
67.5°	2824.2	2876.4	3132.7	3509.3	4236.2	6715.2	13095.7	22912.2	32028.0	31886.7	23618.3
70°	2018.7	2055.4	2243.6	2322.1	2505.1	3885.8	10402.3	20067.2	29460.1	29501.9	20532.6
72.5°	1563.7	1621.3	1736.3	1752.0	1710.2	2065.8	6312.5	16740.9	24099.4	24083.7	15240.0
75°	1260.4	1291.8	1349.3	1380.7	1370.2	1333.6	2672.5	12489.0	16589.3	16782.8	8535.2
77.5°	993.7	988.5	1040.8	1082.6	1114.0	1046.0	1223.8	7321.9	8697.3	8451.5	3205.9
80°	732.2	732.2	805.4	821.1	868.2	878.6	815.9	2824.2	2986.3	2714.3	831.6
82.5°	481.2	481.2	559.6	570.1	617.1	685.1	591.0	847.2	826.3	784.5	376.6
85°	261.5	251.0	277.2	313.8	339.9	402.7	355.6	423.6	434.1	428.9	251.0
87.5°	52.3	47.1	73.2	83.7	94.1	125.5	115.1	172.6	240.6	235.3	109.8
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: P1211461

CATALOG NUMBER: ARCH4-280-740-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9	6662.9
2.5°	6704.7	6699.5	6757.0	6825.0	6903.5	6950.5	6971.5	7008.1	6981.9	6992.4	7023.8
5°	6804.1	6819.8	6903.5	6992.4	7029.0	7002.8	6945.3	6924.4	6877.3	6866.9	6856.4
7.5°	6950.5	6976.7	7060.4	7081.3	6971.5	6788.4	6657.7	6584.5	6506.0	6485.1	6474.6
10°	7191.1	7206.8	7227.7	7013.3	6741.4	6495.5	6333.4	6265.4	6213.1	6171.3	6181.8
12.5°	7494.5	7484.0	7321.9	6877.3	6490.3	6239.3	6129.5	6087.6	6051.0	6024.9	6019.6
15°	7876.2	7803.0	7337.6	6689.1	6255.0	6045.8	5967.3	5951.6	5909.8	5909.8	5904.6
17.5°	8263.3	8075.0	7327.1	6490.3	6030.1	5915.0	5868.0	5857.5	5847.0	5841.8	5857.5
20°	8650.3	8315.6	7243.4	6244.5	5873.2	5805.2	5794.7	5800.0	5789.5	5805.2	5794.7
22.5°	8990.2	8472.5	7086.5	5983.0	5763.4	5758.1	5732.0	5742.4	5779.0	5784.3	5800.0
25°	9251.7	8530.0	6856.4	5742.4	5684.9	5674.5	5705.8	5747.7	5779.0	5784.3	5810.4
27.5°	9466.1	8498.6	6568.8	5554.2	5548.9	5606.5	5700.6	5716.3	5721.5	5721.5	5700.6
30°	9628.3	8430.6	6202.7	5345.0	5371.1	5512.3	5601.2	5601.2	5559.4	5548.9	5580.3
32.5°	9664.9	8341.7	5805.2	5130.5	5172.4	5339.7	5449.6	5413.0	5365.9	5365.9	5386.8
35°	9696.2	8221.4	5486.2	4837.7	4900.4	5099.2	5203.8	5130.5	5078.2	5062.6	5057.3
37.5°	9685.8	8174.3	5198.5	4466.3	4550.0	4743.5	4811.5	4743.5	4665.1	4628.5	4675.5
40°	9696.2	8143.0	4837.7	4058.4	4142.1	4257.1	4346.1	4293.8	4220.5	4126.4	4173.5
42.5°	9759.0	8184.8	4440.2	3660.9	3660.9	3723.7	3875.4	3838.8	3660.9	3624.3	3666.2
45°	10093.7	8409.7	4042.7	3263.5	3205.9	3247.8	3404.7	3247.8	3137.9	3137.9	3174.6
47.5°	10904.4	8828.1	3692.3	2913.1	2777.1	2860.8	2902.6	2756.2	2672.5	2651.6	2688.2
50°	12557.0	9664.9	3483.1	2625.4	2458.1	2520.8	2494.7	2489.4	2405.8	2416.2	2437.1
52.5°	15067.4	11296.6	3420.4	2484.2	2275.0	2290.7	2264.6	2275.0	2259.3	2311.6	2327.3
55°	17802.6	13017.2	3498.8	2505.1	2149.5	2039.7	2050.1	2102.4	2165.2	2248.9	2264.6
57.5°	19847.5	13880.2	3702.8	2646.3	1992.6	1825.2	1851.4	1950.8	2071.0	2139.0	2175.6
60°	21369.4	13775.6	4000.9	2682.9	1804.3	1631.7	1678.8	1825.2	1929.8	1987.4	2024.0
62.5°	21866.2	13121.8	4074.1	2416.2	1558.5	1448.7	1563.7	1715.4	1762.5	1825.2	1851.4
65°	21458.3	12196.1	3540.6	1961.2	1370.2	1312.7	1480.1	1595.1	1657.9	1689.3	1694.5
66°	20977.2	11641.8	3253.0	1783.4	1302.2	1270.9	1448.7	1542.8	1605.6	1600.4	1605.6
67.5°	19920.7	10480.7	2787.5	1532.4	1202.9	1208.1	1396.4	1459.1	1480.1	1464.4	1464.4
70°	16327.8	7379.4	1997.8	1161.0	1056.4	1129.7	1255.2	1270.9	1317.9	1297.0	1297.0
72.5°	10067.6	3624.3	1338.9	889.1	941.4	1056.4	1051.2	1103.5	1213.3	1244.7	1265.6
75°	4947.5	1469.6	883.9	753.1	842.0	883.9	873.4	1004.1	1161.0	1297.0	1344.1
77.5°	1877.5	732.2	617.1	659.0	679.9	664.2	695.6	910.0	1161.0	1406.8	1453.9
80°	580.5	507.3	486.4	543.9	512.5	486.4	523.0	753.1	983.2	1066.9	1066.9
82.5°	350.4	397.5	376.6	371.3	345.2	350.4	376.6	538.7	758.3	794.9	794.9
85°	245.8	261.5	214.4	204.0	198.7	193.5	193.5	313.8	449.8	444.5	460.2
87.5°	94.1	104.6	78.4	78.4	73.2	52.3	41.8	52.3	52.3	36.6	26.1
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)