

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: P840858

Luminaire Tested: **ARCH4-100-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15419 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

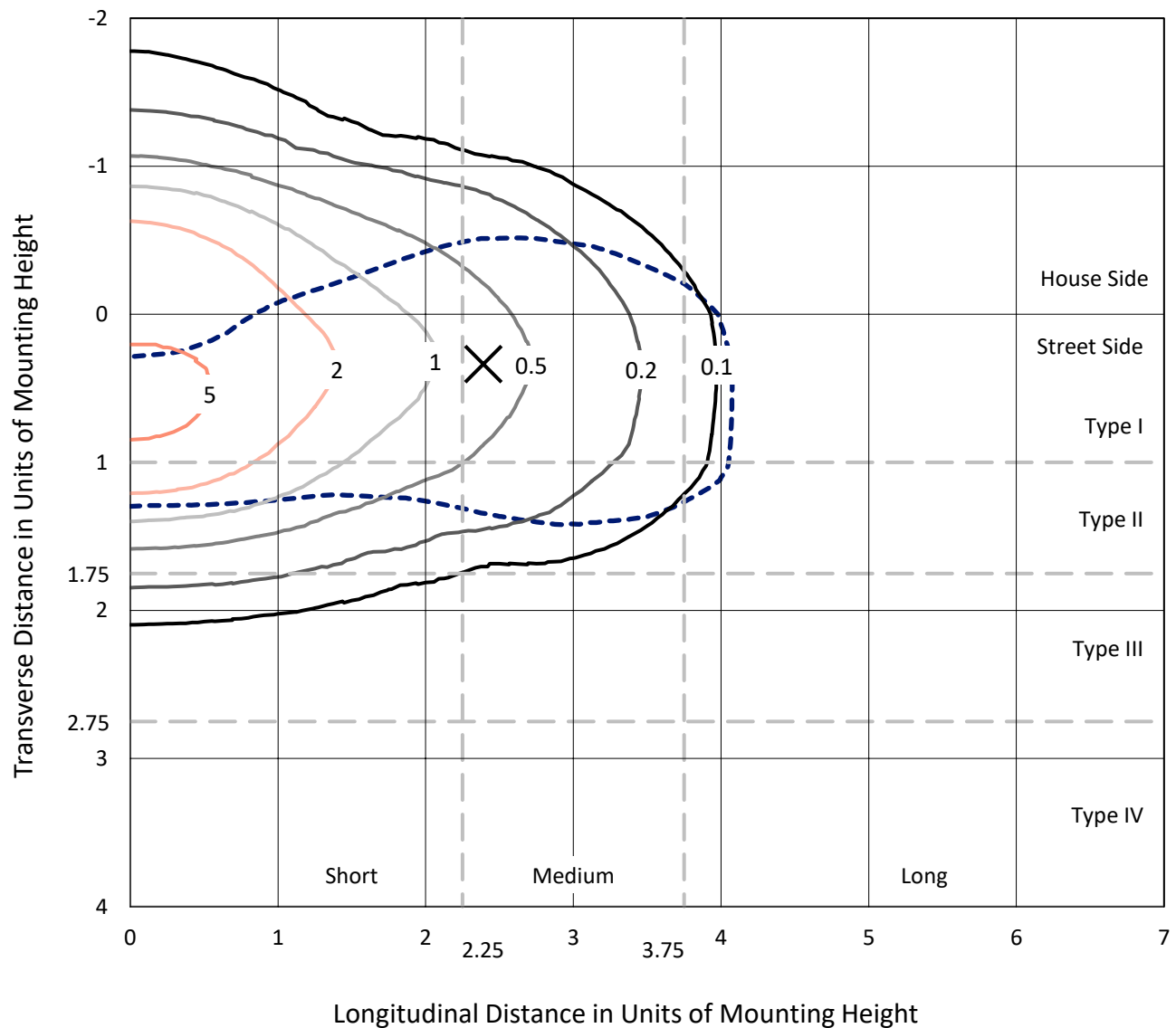
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P840858
CATALOG NUMBER: ARCH4-100-722-U-T2R

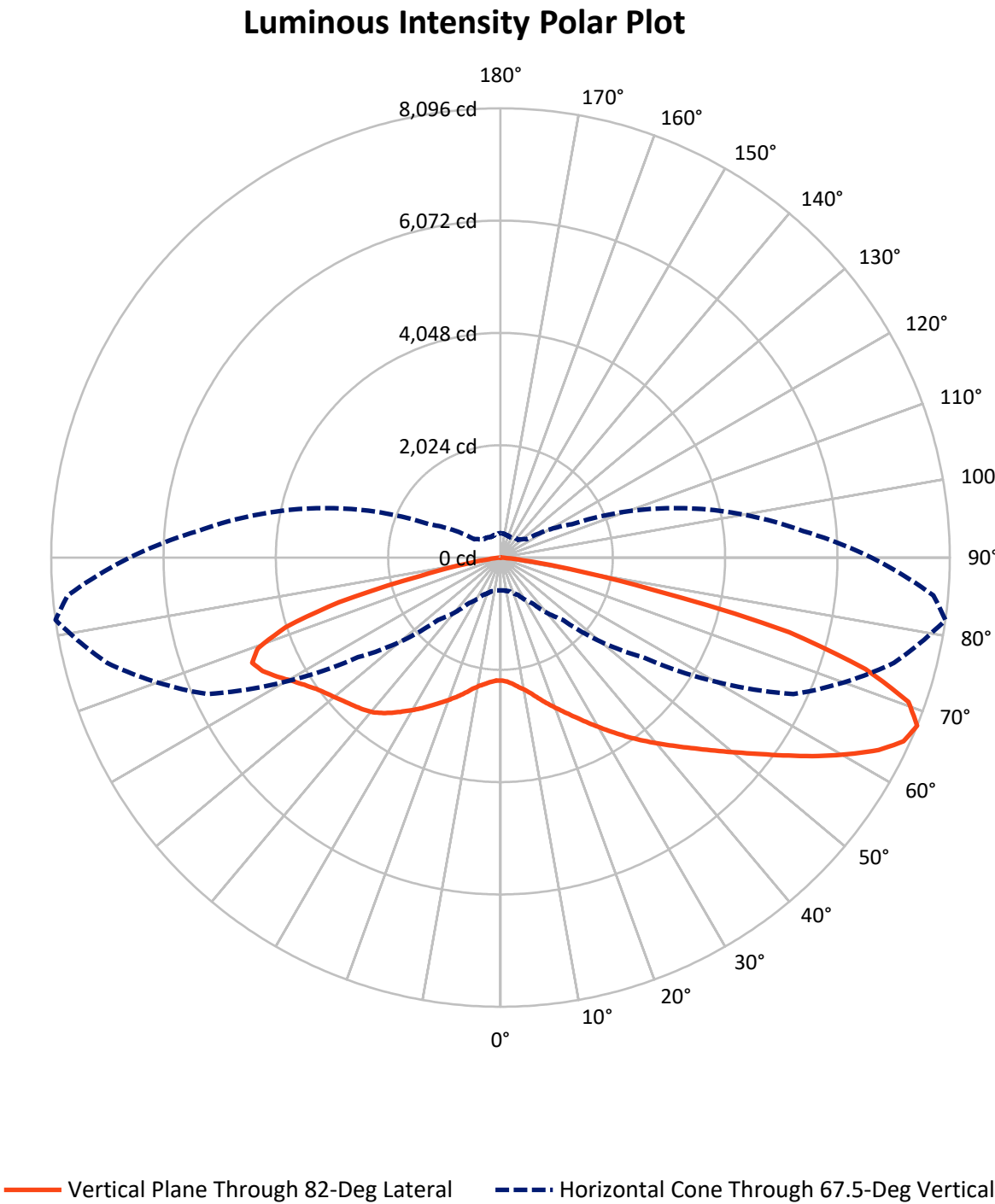
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Medium - N/A

REPORT NUMBER: P840858
CATALOG NUMBER: ARCH4-100-722-U-T2R



REPORT NUMBER: P840858

CATALOG NUMBER: ARCH4-100-722-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4695.7	0.0	4695.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10723.3	0.0	10723.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	15419.0	0.0	15419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	1.5
10°-20°	825.1	5.4
20°-30°	1658.2	10.8
30°-40°	2604.9	16.9
40°-50°	3173.2	20.6
50°-60°	2998.3	19.4
60°-70°	2475.9	16.1
70°-80°	1348.2	8.7
80°-90°	106.0	0.7
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°	15419.0	100.0
0°-180°	15419.0	100.0

Coefficient of Utilization



REPORT NUMBER: P840858

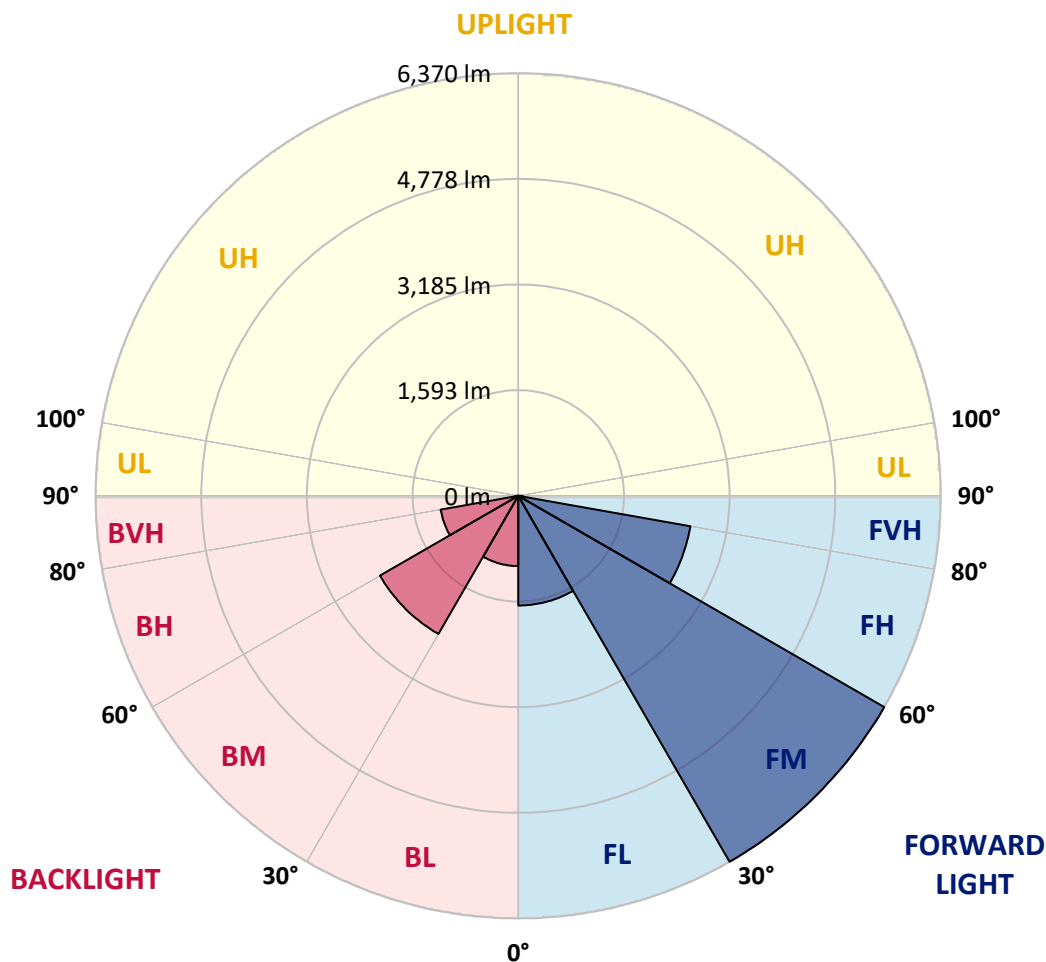
CATALOG NUMBER: ARCH4-100-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1653.5	10.7			
FM	(30°-60°)	6370.2	41.3			
FH	(60°-80°)	2635.7	17.1			G2/5000
FVH	(80°-90°)	63.9	0.4			G1/100
BL	(0°-30°)	1058.9	6.9	B3/2500		
BM	(30°-60°)	2406.2	15.6	B2/2500		
BH	(60°-80°)	1188.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	42.1	0.3			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 II Medium



REPORT NUMBER: P840858

CATALOG NUMBER: ARCH4-100-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5
2.5°	2317.2	2317.2	2335.1	2335.1	2319.5	2294.8	2288.1	2261.3	2236.6	2236.6	2238.9
5°	2538.9	2536.6	2550.1	2532.2	2494.1	2444.8	2411.3	2353.0	2303.8	2288.1	2285.9
7.5°	2809.8	2807.5	2814.2	2785.1	2713.5	2632.9	2565.7	2471.7	2391.1	2357.5	2348.6
10°	3112.0	3109.8	3103.1	3053.8	2957.5	2832.2	2731.4	2601.6	2480.7	2426.9	2415.7
12.5°	3459.0	3454.6	3438.9	3367.2	3235.2	3074.0	2928.4	2760.5	2599.3	2525.4	2500.8
15°	3846.4	3839.6	3810.5	3723.2	3546.4	3342.6	3154.6	2939.6	2742.6	2646.3	2612.8
17.5°	4253.8	4253.8	4209.1	4079.2	3882.2	3629.2	3396.4	3123.2	2892.6	2773.9	2733.7
20°	4668.0	4665.8	4609.8	4453.1	4220.3	3929.2	3633.7	3333.7	3047.1	2903.8	2854.5
22.5°	5104.6	5100.1	5030.7	4851.6	4574.0	4244.9	3900.1	3541.9	3217.2	3044.9	2982.2
25°	5606.1	5599.4	5514.3	5294.9	4965.8	4594.1	4200.1	3785.9	3412.0	3201.6	3127.7
27.5°	6139.0	6130.0	6029.3	5774.0	5413.6	4965.8	4531.5	4068.0	3627.0	3376.2	3293.4
30°	6613.6	6606.9	6497.2	6235.2	5821.0	5335.2	4847.1	4350.1	3853.1	3562.0	3459.0
32.5°	6971.8	6971.8	6873.3	6615.8	6186.0	5688.9	5165.1	4616.5	4088.2	3761.3	3640.4
35°	7189.0	7195.7	7110.6	6904.7	6499.4	6022.5	5494.2	4930.0	4338.9	3974.0	3844.1
37.5°	7220.3	7242.7	7193.5	7054.7	6716.6	6300.2	5816.6	5232.2	4598.6	4188.9	4043.4
40°	7074.8	7090.5	7092.7	7039.0	6806.1	6499.4	6100.9	5552.4	4874.0	4415.0	4247.1
42.5°	6783.8	6794.9	6815.1	6830.8	6741.2	6586.7	6318.1	5850.1	5167.3	4645.6	4448.6
45°	6407.6	6405.4	6439.0	6506.1	6501.7	6537.5	6439.0	6121.0	5471.8	4907.6	4672.5
47.5°	5845.7	5834.5	5953.1	6105.4	6181.5	6349.4	6441.2	6333.7	5803.1	5196.4	4927.7
50°	4965.8	4954.6	5214.3	5572.5	5796.4	6051.6	6318.1	6461.4	6150.2	5521.0	5205.4
52.5°	3895.6	3884.4	4213.5	4840.4	5328.5	5700.1	6069.6	6490.5	6479.3	5883.7	5518.8
55°	2897.1	2888.1	3208.3	3886.7	4677.0	5292.7	5765.1	6414.3	6788.2	6300.2	5899.4
57.5°	2041.8	2037.4	2315.0	2876.9	3839.6	4795.6	5471.8	6266.6	7072.6	6752.4	6329.3
60°	1432.9	1426.2	1627.7	2062.0	2903.8	4045.6	5180.7	6069.6	7285.3	7197.9	6786.0
62.5°	964.9	960.5	1103.8	1466.5	2062.0	3114.3	4739.7	5937.5	7406.2	7645.7	7247.2
65°	732.1	729.9	794.8	994.1	1459.7	2236.6	4038.9	5921.8	7421.8	7981.5	7639.0
67.5°	591.1	593.3	629.1	743.3	1009.7	1589.6	3132.2	5823.3	7339.0	8095.7	7829.3
70°	483.6	483.6	499.3	575.4	745.5	1072.4	2187.4	5375.5	7108.4	7798.0	7603.2
72.5°	369.4	371.7	420.9	465.7	562.0	752.3	1401.5	4448.6	6564.3	6875.5	6727.8
75°	293.3	291.1	320.2	382.8	436.6	537.3	859.7	3190.4	5586.0	5373.3	5279.2
77.5°	210.5	208.2	230.6	284.3	331.4	380.6	512.7	1609.7	3038.1	2791.9	2722.5
80°	143.3	138.8	159.0	197.0	219.4	223.9	250.8	617.9	1325.4	1249.3	1233.6
82.5°	73.9	73.9	85.1	111.9	114.2	116.4	111.9	199.3	438.8	409.7	391.8
85°	29.1	29.1	31.3	38.1	38.1	40.3	40.3	51.5	47.0	44.8	42.5
87.5°	2.2	2.2	4.5	4.5	6.7	6.7	6.7	9.0	11.2	11.2	11.2
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: P840858

CATALOG NUMBER: ARCH4-100-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5	2216.5
2.5°	2234.4	2225.4	2196.3	2189.6	2185.1	2178.4	2180.7	2165.0	2158.3	2160.5	2151.5
5°	2274.7	2259.0	2223.2	2207.5	2203.0	2196.3	2203.0	2191.8	2180.7	2185.1	2180.7
7.5°	2330.7	2308.3	2263.5	2247.8	2245.6	2238.9	2247.8	2238.9	2229.9	2234.4	2225.4
10°	2388.9	2359.8	2310.5	2294.8	2294.8	2292.6	2301.6	2288.1	2279.2	2281.4	2276.9
12.5°	2473.9	2435.9	2382.1	2368.7	2362.0	2368.7	2371.0	2353.0	2337.4	2339.6	2332.9
15°	2576.9	2534.4	2476.2	2456.0	2451.6	2449.3	2440.4	2418.0	2397.8	2395.6	2388.9
17.5°	2688.9	2635.1	2565.7	2545.6	2525.4	2518.7	2496.3	2467.2	2435.9	2435.9	2426.9
20°	2796.3	2735.9	2653.1	2623.9	2594.8	2568.0	2529.9	2482.9	2442.6	2435.9	2426.9
22.5°	2912.8	2841.1	2744.8	2702.3	2650.8	2597.1	2532.2	2469.5	2418.0	2406.8	2400.1
25°	3042.6	2953.1	2838.9	2776.2	2693.4	2610.5	2514.2	2433.6	2373.2	2355.3	2350.8
27.5°	3185.9	3078.4	2939.6	2847.8	2726.9	2597.1	2473.9	2377.7	2303.8	2281.4	2274.7
30°	3331.4	3203.8	3031.4	2897.1	2726.9	2554.5	2400.1	2288.1	2203.0	2171.7	2167.2
32.5°	3477.0	3333.7	3114.3	2924.0	2700.1	2482.9	2303.8	2171.7	2075.4	2037.4	2046.3
35°	3651.6	3477.0	3190.4	2935.1	2655.3	2395.6	2194.1	2039.6	1941.1	1907.5	1914.2
37.5°	3832.9	3620.2	3250.8	2926.2	2592.6	2297.1	2070.9	1920.9	1797.8	1739.6	1746.3
40°	3989.7	3750.1	3293.4	2894.8	2512.0	2185.1	1950.0	1753.0	1582.9	1526.9	1520.2
42.5°	4137.4	3846.4	3315.8	2847.8	2420.2	2055.3	1777.7	1524.7	1354.5	1285.1	1287.3
45°	4291.9	3940.4	3306.8	2785.1	2306.0	1903.0	1556.0	1300.8	1150.8	1088.1	1090.3
47.5°	4468.8	4041.1	3297.8	2718.0	2167.2	1706.0	1343.3	1103.8	973.9	929.1	924.6
50°	4656.8	4153.1	3286.6	2635.1	2012.7	1486.6	1132.9	920.2	810.5	781.4	774.6
52.5°	4869.5	4274.0	3279.9	2536.6	1826.9	1253.8	944.8	759.0	685.1	664.9	662.7
55°	5124.8	4415.0	3288.9	2418.0	1603.0	1034.4	785.8	653.7	604.5	593.3	591.1
57.5°	5436.0	4596.4	3315.8	2279.2	1367.9	844.1	669.4	588.8	557.5	548.5	548.5
60°	5774.0	4802.4	3365.0	2122.4	1132.9	696.3	593.3	537.3	523.9	535.1	535.1
62.5°	6139.0	5044.2	3452.3	1932.1	913.5	588.8	532.8	494.8	485.8	508.2	510.5
65°	6477.0	5279.2	3508.3	1703.8	725.4	510.5	485.8	452.3	456.7	479.1	476.9
67.5°	6685.2	5474.0	3429.9	1417.2	575.4	452.3	436.6	407.5	418.7	436.6	438.8
70°	6557.6	5364.3	3042.6	1070.2	450.0	394.0	382.8	364.9	373.9	396.3	405.2
72.5°	5933.0	4804.6	2366.5	723.2	362.7	331.4	335.8	326.9	338.1	358.2	378.4
75°	4815.8	3631.4	1587.4	463.4	286.6	282.1	288.8	282.1	286.6	306.7	317.9
77.5°	2514.2	1770.9	790.3	288.8	212.7	219.4	230.6	232.8	246.3	250.8	255.2
80°	1173.2	797.0	329.1	161.2	141.0	154.5	176.9	179.1	183.6	190.3	192.5
82.5°	382.8	239.6	152.2	87.3	80.6	87.3	114.2	136.6	138.8	152.2	152.2
85°	40.3	24.6	33.6	35.8	31.3	38.1	51.5	49.3	22.4	13.4	13.4
87.5°	11.2	9.0	11.2	11.2	9.0	9.0	6.7	2.2	0.0	0.0	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)