

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: P841116

Luminaire Tested: **ARCH4-130-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22598 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 132
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



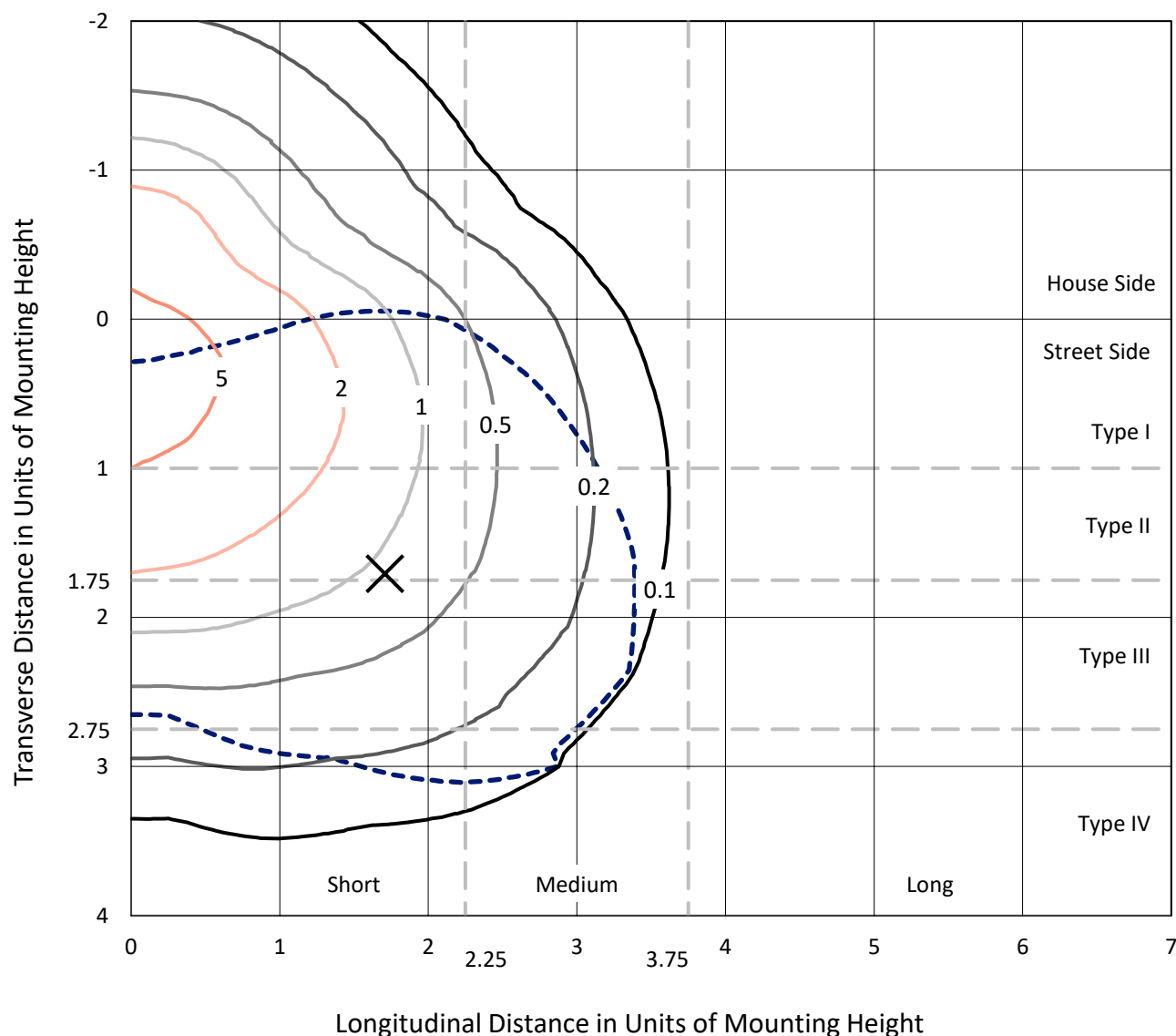
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

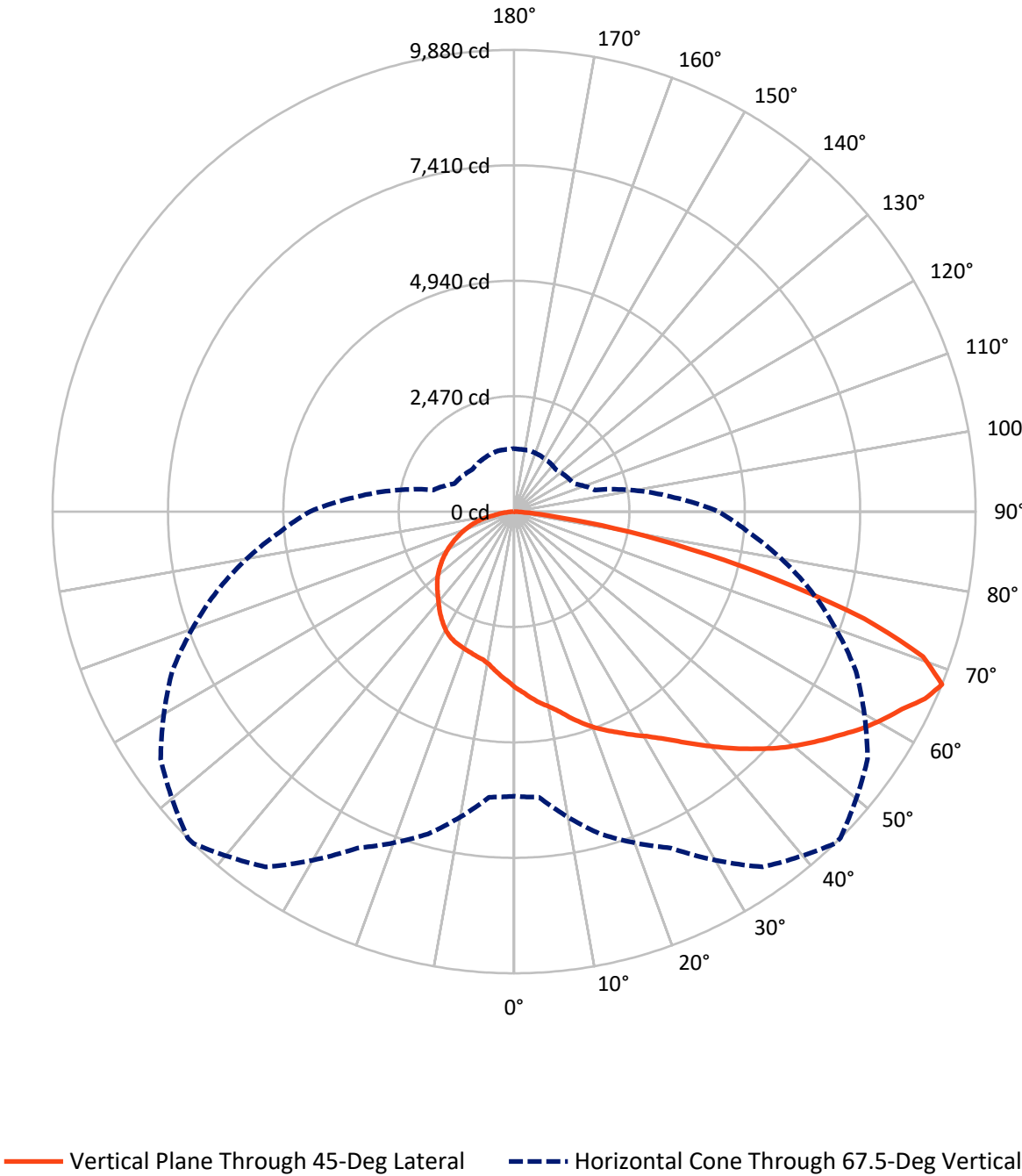


Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6037.1	0.0	6037.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	16560.9	0.0	16560.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	22598.0	0.0	22598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.6
10°-20°	1114.7	4.9
20°-30°	1924.1	8.5
30°-40°	2837.4	12.6
40°-50°	3844.2	17.0
50°-60°	4698.5	20.8
60°-70°	4845.8	21.4
70°-80°	2654.2	11.7
80°-90°	318.1	1.4
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°	22598.0	100.0
0°-180°	22598.0	100.0

Coefficient of Utilization



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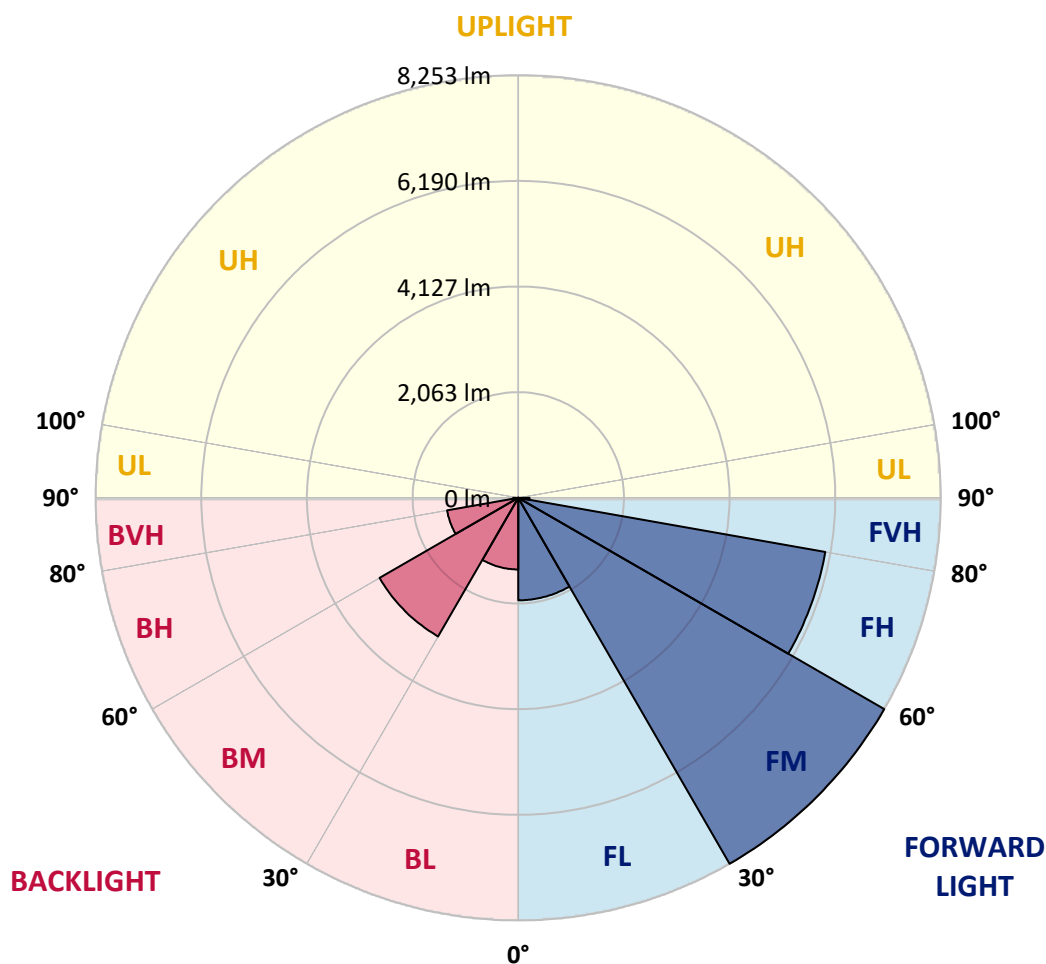
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2000.5	8.9			
FM	(30°-60°)	8253.0	36.5			
FH	(60°-80°)	6088.2	26.9			G3/7500
FVH	(80°-90°)	219.2	1.0			G2/225
BL	(0°-30°)	1399.2	6.2	B3/2500		
BM	(30°-60°)	3127.1	13.8	B3/5000		
BH	(60°-80°)	1411.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	99.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9
2.5°	3934.0	3930.5	3937.4	3913.3	3882.4	3879.0	3879.0	3858.3	3834.3	3786.1	3748.3
5°	4119.7	4112.8	4116.2	4081.8	4040.6	4019.9	4016.5	3971.8	3916.8	3841.1	3772.4
7.5°	4291.6	4284.7	4281.3	4243.5	4181.6	4147.2	4143.7	4078.4	4013.1	3896.2	3796.4
10°	4453.2	4446.4	4439.5	4387.9	4312.2	4260.7	4253.8	4171.3	4088.7	3944.3	3817.1
12.5°	4659.6	4645.8	4638.9	4577.0	4467.0	4412.0	4401.7	4291.6	4188.5	4013.1	3858.3
15°	4876.2	4865.9	4855.6	4797.1	4673.3	4601.1	4583.9	4446.4	4305.4	4102.5	3920.2
17.5°	5037.8	5027.5	5027.5	4975.9	4862.5	4779.9	4766.2	4601.1	4425.7	4185.0	3968.4
20°	5137.6	5127.2	5137.6	5106.6	5020.6	4951.9	4938.1	4755.9	4546.1	4260.7	4009.6
22.5°	5209.8	5199.5	5216.6	5202.9	5141.0	5099.7	5089.4	4910.6	4669.9	4339.8	4050.9
25°	5337.0	5337.0	5337.0	5312.9	5254.5	5240.7	5240.7	5086.0	4828.1	4442.9	4112.8
27.5°	5591.5	5577.7	5560.5	5491.8	5392.0	5388.6	5409.2	5264.8	5010.3	4577.0	4188.5
30°	5966.3	5959.4	5894.1	5749.7	5581.2	5564.0	5577.7	5457.4	5206.3	4718.0	4274.4
32.5°	6451.2	6427.1	6293.0	6076.3	5835.6	5756.5	5784.1	5656.8	5412.7	4862.5	4357.0
35°	6795.1	6801.9	6705.6	6509.6	6224.2	6014.5	6035.1	5880.3	5636.2	5024.1	4460.1
37.5°	7190.5	7214.6	7070.2	6922.3	6657.5	6299.9	6320.5	6110.7	5859.7	5227.0	4570.2
40°	7737.3	7689.1	7445.0	7269.6	6977.3	6599.0	6616.2	6368.6	6117.6	5419.5	4697.4
42.5°	8194.6	8108.7	7812.9	7589.4	7238.7	6915.4	6932.6	6647.2	6379.0	5632.7	4838.4
45°	8851.5	8614.2	8187.8	8077.7	7506.9	7224.9	7242.1	6942.9	6654.1	5859.7	4989.7
47.5°	9233.2	8854.9	8583.2	8524.8	7802.6	7544.7	7565.3	7255.9	6949.8	6117.6	5147.9
50°	9209.1	8964.9	8885.8	8741.4	8064.0	7843.9	7864.5	7579.1	7249.0	6372.1	5299.2
52.5°	9050.9	9095.6	9054.3	8813.6	8325.3	8132.7	8156.8	7898.9	7555.0	6609.4	5440.2
55°	9295.1	9326.0	9246.9	8930.5	8614.2	8421.6	8449.1	8235.9	7857.6	6819.1	5560.5
57.5°	9587.4	9477.3	9398.2	9136.9	8913.4	8734.5	8765.5	8579.8	8119.0	6987.6	5653.4
60°	9573.6	9343.2	9422.3	9150.6	9116.2	9023.4	9050.9	8861.8	8318.4	7111.4	5691.2
62.5°	8868.6	8744.9	9143.8	9050.9	9281.3	9281.3	9315.7	9033.7	8438.8	7163.0	5670.6
65°	7644.4	7651.3	8352.8	8738.0	9477.3	9635.5	9663.0	9140.3	8370.0	7011.7	5478.0
67.5°	6090.1	6134.8	7142.4	7943.6	9281.3	9876.2	9879.7	9236.6	8074.3	6585.3	5031.0
70°	4456.7	4491.1	5680.9	6654.1	8356.3	9343.2	9288.2	8964.9	7431.2	5842.5	4332.9
72.5°	3012.4	3043.3	4267.5	5110.0	6857.0	7957.4	7837.0	7923.0	6334.3	4800.6	3483.5
75°	2025.4	2063.3	3036.5	3655.4	5044.7	6042.0	5773.7	6000.7	4900.3	3634.8	2541.3
77.5°	1275.8	1299.9	1929.2	2396.8	3445.7	4112.8	3844.6	3848.0	2823.2	1956.7	1365.2
80°	811.6	818.4	1169.2	1382.4	1994.5	2472.5	2187.1	1777.9	1272.4	1038.5	815.0
82.5°	471.1	460.8	698.1	780.6	949.1	938.8	777.2	735.9	557.1	519.3	416.1
85°	189.1	175.4	306.1	285.4	288.9	306.1	227.0	227.0	182.3	141.0	103.2
87.5°	37.8	37.8	41.3	37.8	37.8	41.3	30.9	30.9	27.5	27.5	27.5
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°	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9	3768.9
2.5°	3741.4	3734.5	3717.3	3672.6	3648.6	3634.8	3614.2	3607.3	3603.9	3607.3	3617.6
5°	3751.7	3727.7	3679.5	3607.3	3559.2	3528.2	3493.8	3480.1	3469.7	3469.7	3480.1
7.5°	3758.6	3720.8	3638.2	3531.6	3462.9	3414.7	3373.5	3356.3	3352.8	3363.1	3366.6
10°	3762.0	3707.0	3590.1	3456.0	3366.6	3304.7	3263.4	3253.1	3263.4	3284.0	3287.5
12.5°	3786.1	3710.5	3562.6	3404.4	3297.8	3235.9	3205.0	3205.0	3232.5	3270.3	3273.7
15°	3827.4	3734.5	3548.8	3363.1	3253.1	3198.1	3187.8	3205.0	3246.2	3304.7	3311.6
17.5°	3858.3	3748.3	3517.9	3308.1	3194.6	3160.3	3177.4	3218.7	3277.2	3356.3	3363.1
20°	3879.0	3748.3	3473.2	3242.8	3136.2	3129.3	3177.4	3242.8	3304.7	3397.5	3407.8
22.5°	3899.6	3741.4	3421.6	3163.7	3070.8	3091.5	3180.9	3263.4	3325.3	3425.0	3442.2
25°	3937.4	3751.7	3370.0	3084.6	3002.1	3060.5	3177.4	3277.2	3342.5	3445.7	3473.2
27.5°	3989.0	3775.8	3332.2	3012.4	2933.3	3012.4	3153.4	3273.7	3342.5	3442.2	3473.2
30°	4044.0	3803.3	3287.5	2933.3	2854.2	2943.6	3101.8	3235.9	3315.0	3407.8	3445.7
32.5°	4102.5	3834.3	3249.7	2847.3	2757.9	2850.8	3026.1	3177.4	3263.4	3349.4	3390.7
35°	4181.6	3889.3	3229.0	2778.5	2671.9	2754.5	2929.9	3101.8	3194.6	3273.7	3321.9
37.5°	4277.9	3958.1	3218.7	2709.8	2579.1	2647.9	2826.7	3008.9	3108.7	3174.0	3218.7
40°	4387.9	4044.0	3215.3	2644.4	2486.2	2537.8	2720.1	2902.3	2998.6	3050.2	3088.0
42.5°	4511.7	4140.3	3208.4	2579.1	2393.4	2434.7	2616.9	2795.7	2878.3	2923.0	2957.4
45°	4642.4	4236.6	3194.6	2500.0	2293.7	2341.8	2510.3	2668.5	2754.5	2792.3	2830.1
47.5°	4773.0	4332.9	3167.1	2410.6	2204.3	2249.0	2396.8	2534.4	2603.2	2637.6	2675.4
50°	4900.3	4418.8	3101.8	2307.4	2111.4	2152.7	2266.2	2359.0	2410.6	2438.1	2475.9
52.5°	5013.8	4477.3	3008.9	2187.1	2018.6	2039.2	2114.9	2194.0	2235.2	2238.7	2273.0
55°	5110.0	4508.3	2874.8	2063.3	1918.8	1922.3	1963.6	2025.4	2042.6	2028.9	2053.0
57.5°	5165.1	4491.1	2727.0	1936.0	1815.7	1801.9	1832.9	1863.8	1867.3	1832.9	1856.9
60°	5178.8	4412.0	2534.4	1808.8	1712.5	1674.7	1685.0	1678.1	1671.3	1657.5	1678.1
62.5°	5110.0	4243.5	2321.2	1685.0	1602.5	1544.0	1540.6	1537.1	1547.5	1550.9	1554.3
65°	4859.0	3927.1	2066.7	1557.8	1485.6	1406.5	1403.0	1444.3	1458.0	1437.4	1444.3
67.5°	4374.1	3442.2	1788.2	1409.9	1337.7	1268.9	1296.4	1320.5	1344.6	1337.7	1344.6
70°	3686.4	2826.7	1533.7	1244.8	1176.1	1138.2	1169.2	1189.8	1193.3	1186.4	1193.3
72.5°	2898.9	2207.7	1296.4	1076.3	1014.4	997.3	1035.1	1052.3	1083.2	1097.0	1100.4
75°	2094.2	1630.0	1062.6	894.1	842.5	842.5	876.9	907.8	935.4	918.2	907.8
77.5°	1169.2	973.2	763.4	615.5	625.9	674.0	687.8	722.1	749.7	746.2	739.3
80°	708.4	608.7	515.8	398.9	395.5	433.3	522.7	581.2	594.9	564.0	560.5
82.5°	368.0	319.8	275.1	223.5	247.6	288.9	302.6	364.5	402.3	388.6	405.8
85°	92.8	89.4	99.7	103.2	127.2	141.0	154.7	182.3	120.4	58.5	58.5
87.5°	27.5	27.5	34.4	34.4	44.7	55.0	51.6	51.6	27.5	3.4	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)