

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: P841591

Luminaire Tested: **ARCH4-200-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841591
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: ARCH4-200-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

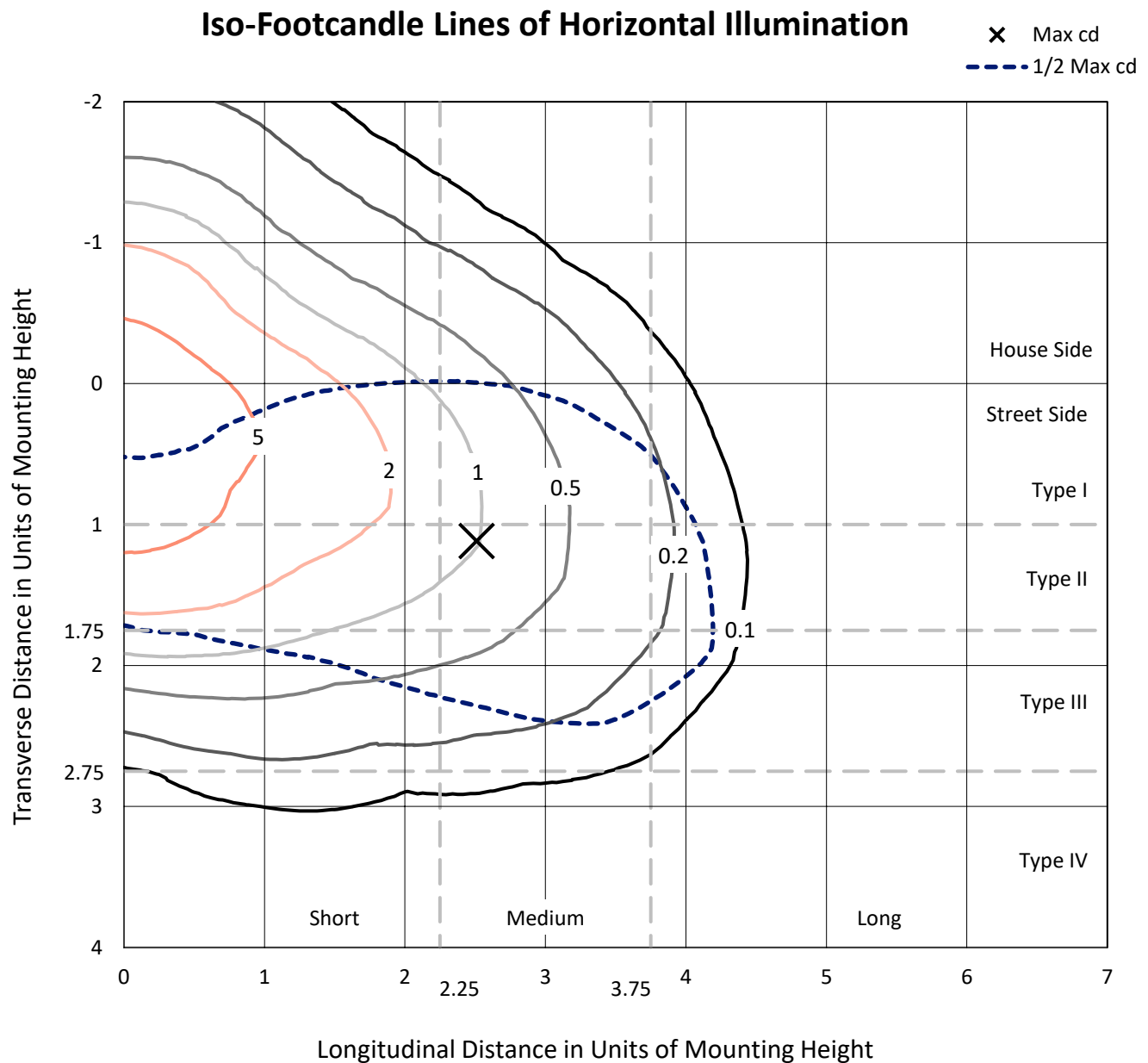
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30227 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 203.7
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



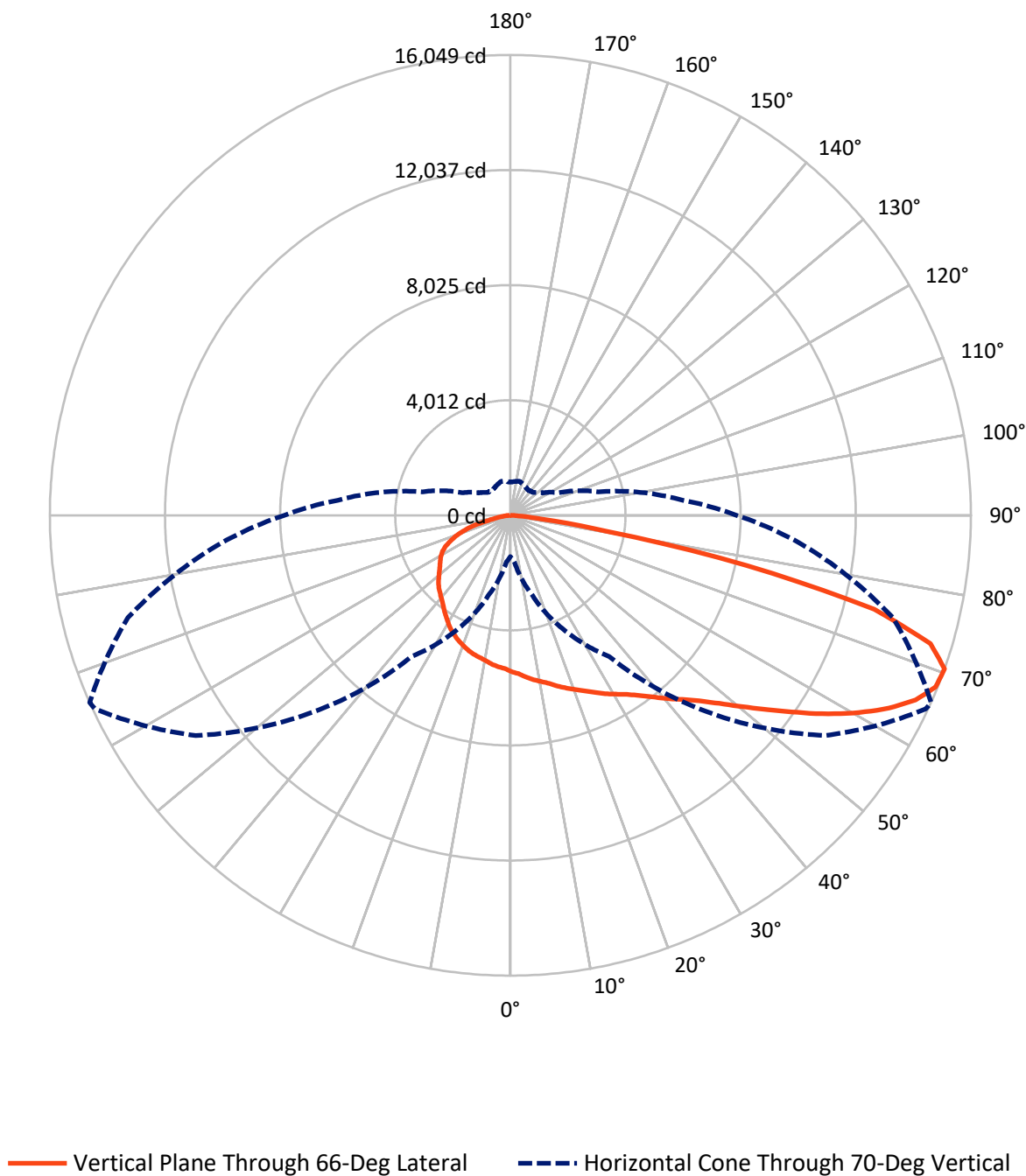
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Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8009.5	0.0	8009.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	22217.5	0.0	22217.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	30227.0	0.0	30227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.2	1.7
10°-20°	1572.4	5.2
20°-30°	2635.9	8.7
30°-40°	3946.8	13.1
40°-50°	5276.8	17.5
50°-60°	6160.9	20.4
60°-70°	6126.0	20.3
70°-80°	3626.7	12.0
80°-90°	357.5	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°	30227.0	100.0
0°-180°	30227.0	100.0

Coefficient of Utilization



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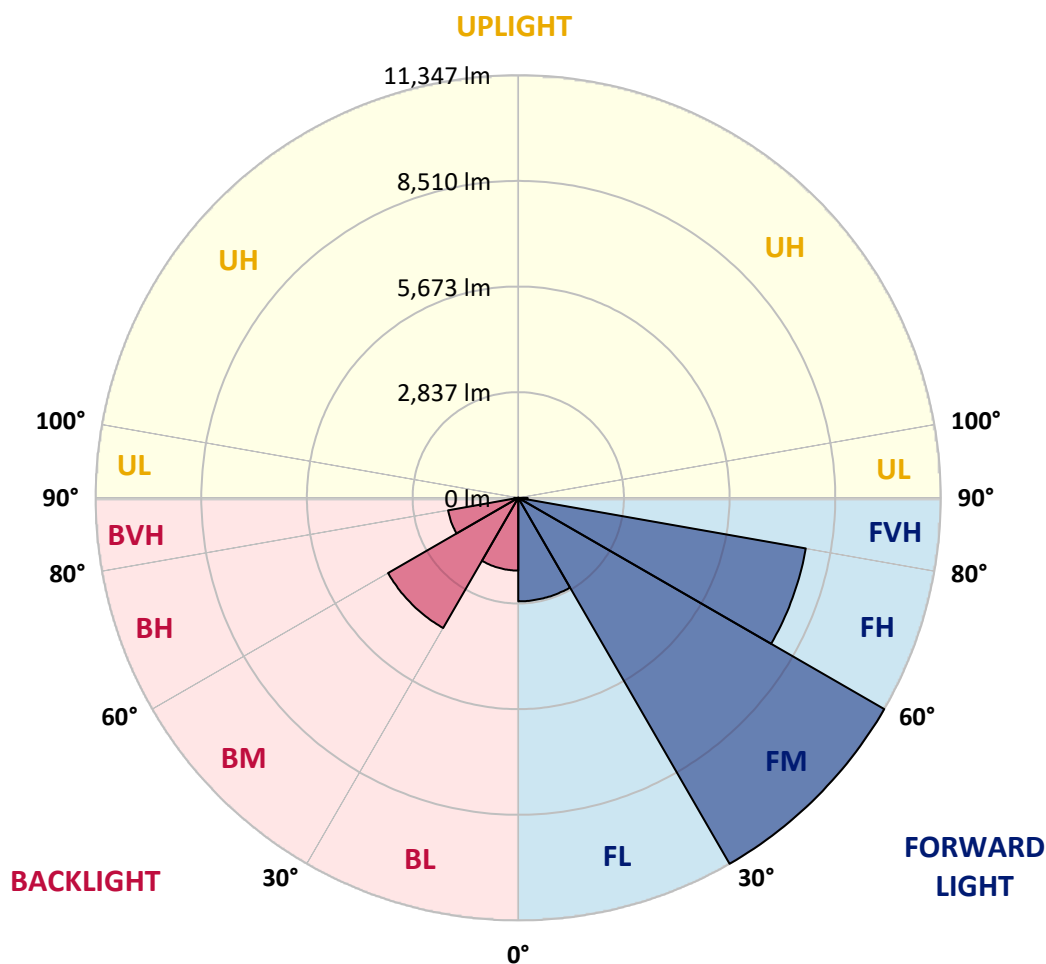
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2780.1	9.2			
FM	(30°-60°)	11346.8	37.5			
FH	(60°-80°)	7839.4	25.9			G4/12000
FVH	(80°-90°)	251.2	0.8			G3/500
BL	(0°-30°)	1952.4	6.5	B3/2500		
BM	(30°-60°)	4037.6	13.4	B3/5000		
BH	(60°-80°)	1913.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	106.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3
2.5°	5655.8	5646.9	5642.5	5624.6	5584.5	5602.4	5562.3	5535.5	5531.1	5468.7	5433.0
5°	5887.6	5883.2	5874.2	5847.5	5785.1	5794.0	5727.2	5678.1	5664.8	5566.7	5490.9
7.5°	6083.7	6074.8	6070.3	6034.7	5967.8	5963.4	5883.2	5811.8	5789.6	5655.8	5540.0
10°	6235.2	6221.9	6230.8	6195.1	6123.8	6110.5	6007.9	5914.3	5892.1	5722.7	5562.3
12.5°	6364.5	6355.6	6369.0	6337.8	6279.8	6266.4	6163.9	6043.6	6016.9	5820.8	5611.3
15°	6507.1	6475.9	6502.7	6489.3	6449.2	6444.7	6351.1	6217.4	6181.8	5945.5	5687.0
17.5°	6582.9	6565.1	6596.3	6600.7	6582.9	6614.1	6524.9	6364.5	6333.3	6061.4	5753.9
20°	6636.4	6609.6	6645.3	6672.0	6685.4	6747.8	6676.5	6520.5	6484.8	6172.9	5816.3
22.5°	6819.1	6761.2	6765.6	6783.5	6792.4	6881.5	6836.9	6685.4	6649.7	6311.0	5892.1
25°	7278.2	7162.3	7086.5	7033.0	6970.6	7046.4	7019.7	6872.6	6841.4	6475.9	5985.7
27.5°	7991.3	7844.2	7692.7	7536.7	7291.5	7260.3	7215.8	7082.1	7046.4	6640.8	6079.3
30°	8802.4	8655.4	8477.1	8227.5	7768.4	7527.8	7425.2	7278.2	7238.1	6787.9	6168.4
32.5°	9609.1	9479.9	9301.6	8998.5	8343.4	7853.1	7634.7	7483.2	7443.1	6948.4	6275.4
35°	10237.6	10157.3	10041.5	9662.6	8913.9	8236.4	7937.8	7755.1	7710.5	7202.4	6471.5
37.5°	10745.7	10687.7	10589.7	10193.0	9328.4	8619.7	8285.4	8076.0	8026.9	7478.7	6680.9
40°	11494.4	11342.9	11262.7	10687.7	9689.4	8967.3	8677.6	8459.3	8405.8	7772.9	6850.3
42.5°	12131.8	12020.3	11922.3	11129.0	10032.6	9266.0	9047.6	8847.0	8775.7	8062.6	7033.0
45°	12238.7	12283.3	12234.3	11347.3	10576.3	9560.1	9422.0	9292.7	9225.8	8454.8	7309.4
47.5°	12243.2	12243.2	11953.5	11472.1	11249.3	9889.9	9823.1	9867.6	9796.3	8954.0	7639.2
50°	11922.3	11980.2	11828.7	11503.3	11427.6	10219.7	10313.3	10554.0	10482.7	9484.4	7995.7
52.5°	11258.2	11449.9	11445.4	11454.3	11169.1	10500.5	10830.3	11378.5	11258.2	10081.6	8374.6
55°	10086.0	10469.3	10812.5	11106.7	10946.2	10669.9	11463.2	12256.6	12131.8	10750.1	8757.9
57.5°	9083.2	9328.4	9756.2	10589.7	10683.3	10817.0	12056.0	13174.7	13063.3	11490.0	9159.0
60°	7937.8	8276.5	8704.4	9889.9	10362.4	11008.6	12706.7	14070.5	13963.6	12238.7	9546.7
62.5°	6177.3	6614.1	7469.8	8815.8	9894.4	11129.0	13219.3	14859.4	14810.4	12947.4	9894.4
65°	4305.4	4693.1	5892.1	7496.6	9150.1	11075.5	13629.3	15563.6	15519.0	13526.8	10139.5
67.5°	2513.7	2963.9	4318.8	6034.7	7835.3	10705.6	13763.0	15978.1	15978.1	13878.9	10206.4
70°	1435.1	1644.6	2848.0	4399.0	6007.9	9684.9	13388.6	15973.6	16049.4	13798.7	9930.0
72.5°	1002.8	1096.4	1916.5	2959.4	4073.6	7835.3	12408.1	15202.6	15305.1	13041.0	8985.2
75°	780.0	846.8	1350.5	2019.0	2567.2	5321.6	10264.3	12818.1	13090.0	11115.6	7264.8
77.5°	592.8	641.8	788.9	1261.3	1644.6	3057.5	6774.5	8405.8	8423.6	6805.7	3895.4
80°	432.3	481.3	525.9	771.0	873.6	1430.7	2558.3	3512.1	3414.0	3293.7	2108.1
82.5°	258.5	307.5	320.9	419.0	427.9	610.6	895.8	1132.1	1087.5	1448.5	989.4
85°	111.4	156.0	164.9	191.6	182.7	249.6	356.6	298.6	267.4	307.5	213.9
87.5°	26.7	44.6	44.6	49.0	40.1	62.4	66.9	49.0	44.6	53.5	53.5
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°	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3
2.5°	5424.1	5410.7	5415.2	5339.4	5317.1	5294.8	5281.5	5272.6	5263.6	5277.0	5290.4
5°	5464.2	5433.0	5397.3	5285.9	5241.4	5192.3	5156.7	5125.5	5112.1	5112.1	5125.5
7.5°	5495.4	5441.9	5366.1	5219.1	5138.8	5072.0	5014.0	4973.9	4951.7	4951.7	4965.0
10°	5499.9	5424.1	5303.7	5125.5	5018.5	4920.5	4853.6	4809.0	4777.8	4777.8	4786.7
12.5°	5526.6	5424.1	5268.1	5054.2	4920.5	4800.1	4719.9	4653.0	4639.7	4639.7	4648.6
15°	5571.2	5446.4	5245.8	4991.8	4831.3	4693.1	4604.0	4532.7	4506.0	4523.8	4528.2
17.5°	5611.3	5459.7	5205.7	4911.5	4719.9	4568.4	4470.3	4407.9	4372.3	4412.4	4412.4
20°	5638.0	5459.7	5147.8	4809.0	4599.6	4430.2	4336.6	4260.8	4234.1	4283.1	4287.6
22.5°	5678.1	5455.3	5085.4	4706.5	4470.3	4292.0	4198.4	4140.5	4127.1	4180.6	4198.4
25°	5722.7	5464.2	5018.5	4590.6	4327.7	4153.9	4082.5	4055.8	4064.7	4131.6	4153.9
27.5°	5771.7	5482.0	4951.7	4461.4	4171.7	4015.7	3975.6	3989.0	4024.6	4109.3	4136.0
30°	5816.3	5486.5	4858.1	4309.9	3993.4	3846.3	3864.2	3922.1	3975.6	4060.3	4091.5
32.5°	5874.2	5490.9	4760.0	4144.9	3801.8	3694.8	3775.0	3868.6	3922.1	4002.3	4038.0
35°	6016.9	5566.7	4684.2	3984.5	3623.5	3565.5	3699.3	3819.6	3850.8	3922.1	3953.3
37.5°	6181.8	5691.5	4644.1	3819.6	3449.7	3436.3	3605.7	3726.0	3734.9	3779.5	3810.7
40°	6284.3	5745.0	4599.6	3681.4	3293.7	3302.6	3476.4	3570.0	3552.2	3583.4	3605.7
42.5°	6386.8	5762.8	4506.0	3565.5	3146.6	3155.5	3289.2	3356.1	3365.0	3431.8	3463.0
45°	6560.6	5811.8	4403.4	3458.6	3012.9	2981.7	3061.9	3151.1	3266.9	3396.2	3431.8
47.5°	6792.4	5914.3	4296.5	3329.3	2883.6	2781.1	2812.3	2968.3	3088.7	3209.0	3231.3
50°	7028.6	6016.9	4198.4	3173.3	2754.4	2567.2	2580.6	2723.2	2821.2	2914.8	2928.2
52.5°	7260.3	6106.0	4113.7	3026.3	2607.3	2313.1	2366.6	2513.7	2580.6	2625.1	2638.5
55°	7492.1	6181.8	4038.0	2901.5	2437.9	2112.6	2161.6	2299.8	2366.6	2388.9	2397.8
57.5°	7732.8	6270.9	3980.0	2794.5	2246.3	1934.3	1965.5	2063.6	2126.0	2152.7	2143.8
60°	7933.3	6346.7	3948.8	2683.1	2054.6	1769.4	1760.5	1849.6	1938.8	1965.5	1956.6
62.5°	8089.3	6395.7	3899.8	2540.5	1885.3	1604.5	1559.9	1675.8	1769.4	1787.2	1800.6
65°	8174.0	6400.2	3779.5	2357.7	1711.5	1426.2	1395.0	1510.9	1568.8	1586.7	1586.7
67.5°	8160.6	6328.8	3543.3	2112.6	1551.0	1265.8	1239.0	1310.3	1395.0	1408.4	1395.0
70°	7884.3	6034.7	3164.4	1854.1	1359.4	1123.1	1074.1	1145.4	1225.7	1176.6	1154.3
72.5°	7099.9	5272.6	2607.3	1568.8	1145.4	944.9	922.6	993.9	998.4	1007.3	985.0
75°	5602.4	3926.6	1952.1	1221.2	927.0	793.3	788.9	775.5	793.3	829.0	802.2
77.5°	2941.6	1961.1	1056.3	748.8	673.0	637.3	606.1	601.7	655.2	677.5	650.7
80°	1595.6	1100.9	606.1	450.2	410.0	414.5	454.6	445.7	503.6	517.0	494.7
82.5°	695.3	521.5	298.6	271.9	271.9	267.4	280.8	312.0	374.4	374.4	298.6
85°	151.5	129.3	115.9	133.7	151.5	151.5	151.5	151.5	107.0	57.9	40.1
87.5°	49.0	49.0	49.0	53.5	57.9	57.9	49.0	35.7	22.3	4.5	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)