

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: P841596

Luminaire Tested: **ARCH4-200-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841596
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: ARCH4-200-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31359 lumens
Efficiency: N/A
Efficacy: 153.9 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): 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



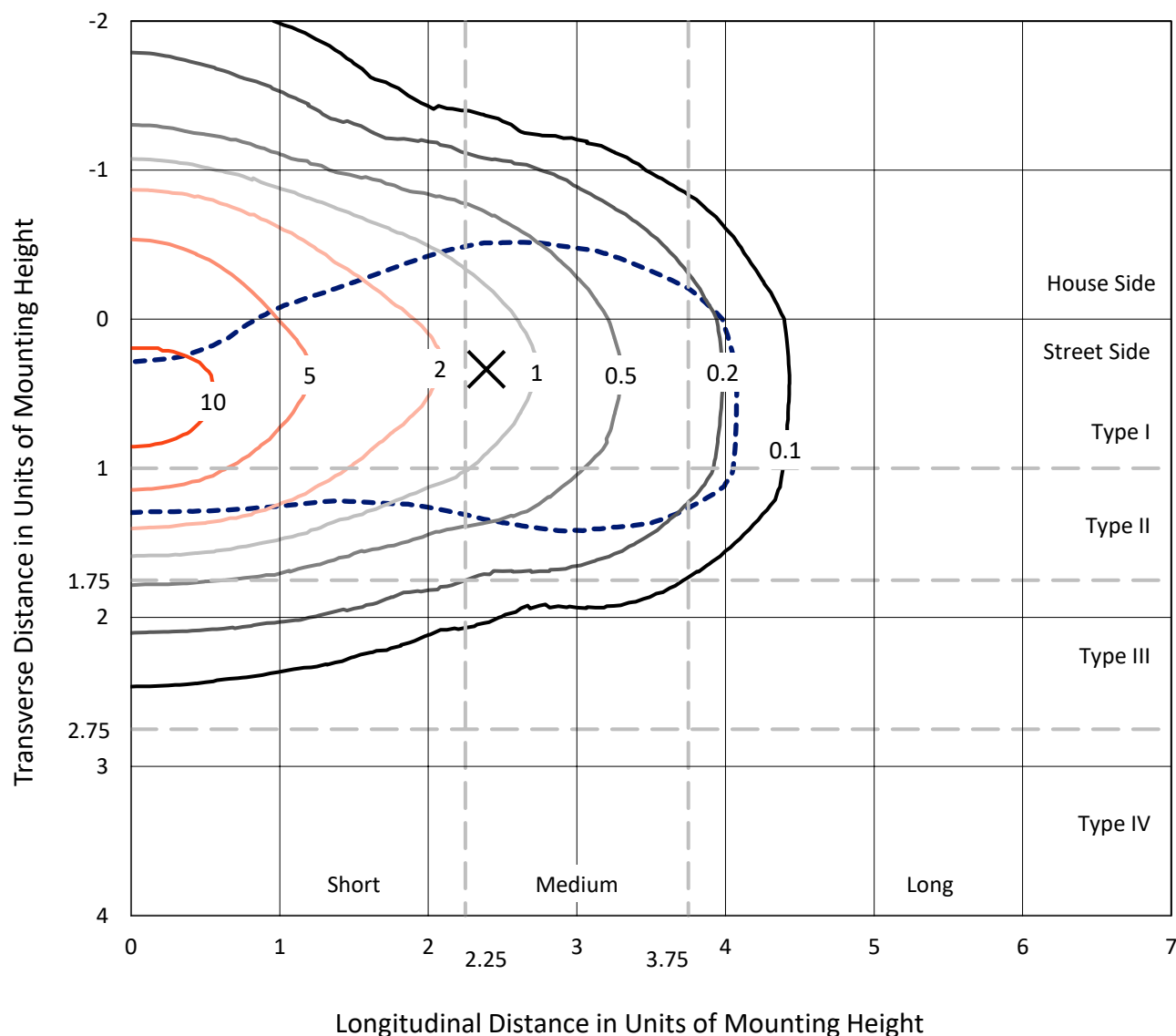
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

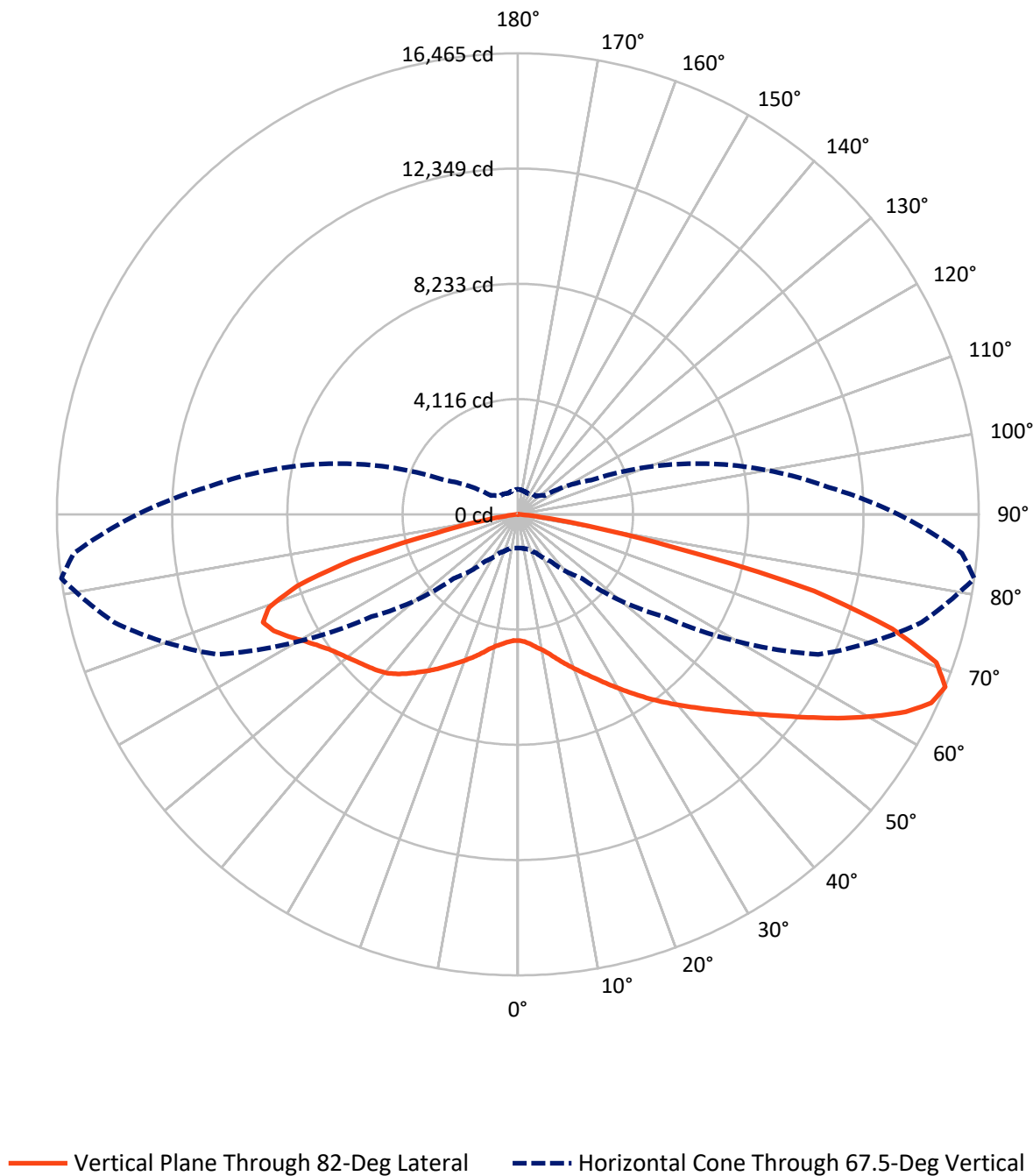
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9550.1	0.0	9550.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	21808.9	0.0	21808.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	31359.0	0.0	31359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.9	1.5
10°-20°	1678.1	5.4
20°-30°	3372.5	10.8
30°-40°	5297.7	16.9
40°-50°	6453.7	20.6
50°-60°	6098.0	19.4
60°-70°	5035.5	16.1
70°-80°	2742.0	8.7
80°-90°	215.6	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°	31359.0	100.0
0°-180°	31359.0	100.0

Coefficient of Utilization



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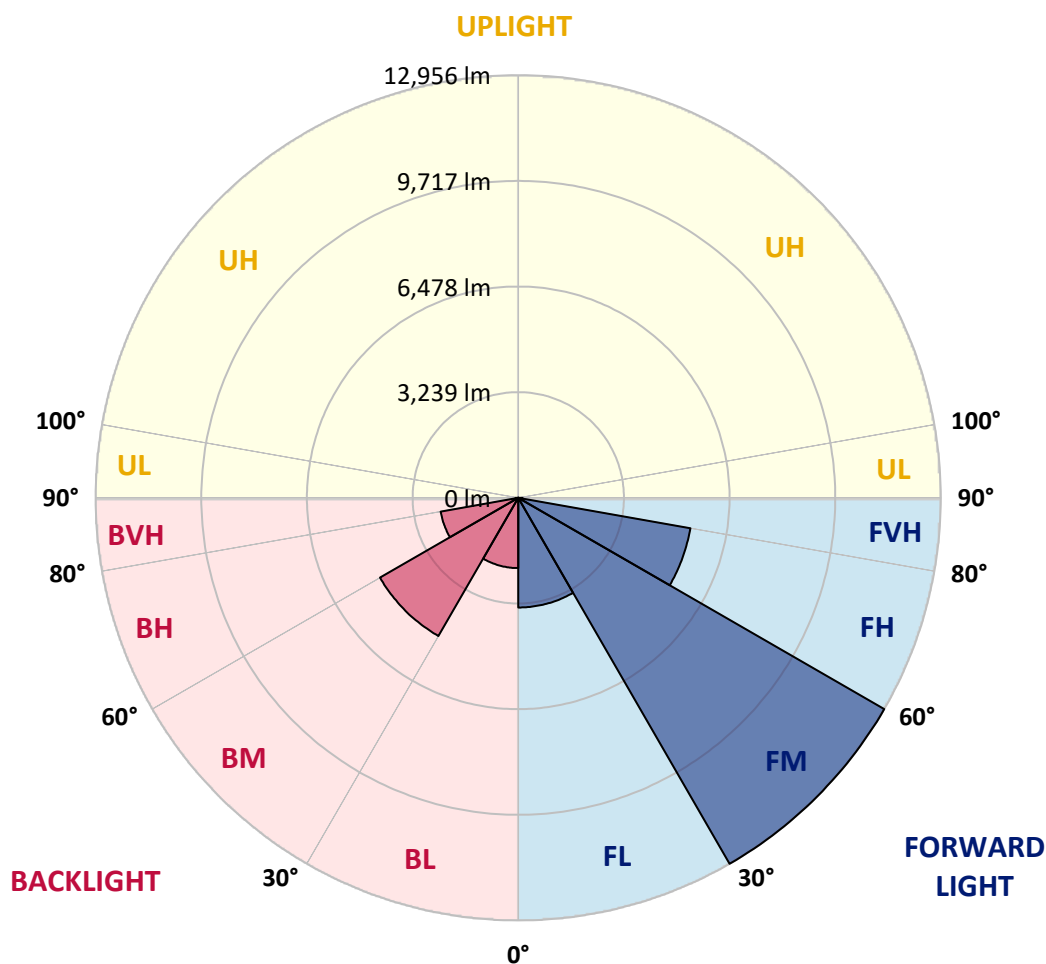
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3362.8	10.7			
FM	(30°-60°)	12955.7	41.3			
FH	(60°-80°)	5360.4	17.1			G3/7500
FVH	(80°-90°)	130.0	0.4			G2/225
BL	(0°-30°)	2153.6	6.9	B3/2500		
BM	(30°-60°)	4893.7	15.6	B3/5000		
BH	(60°-80°)	2417.2	7.7	B3/2500		G3/2500
BVH	(80°-90°)	85.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8
2.5°	4712.7	4712.7	4749.2	4749.2	4717.3	4667.2	4653.5	4598.9	4548.8	4548.8	4553.4
5°	5163.5	5159.0	5186.3	5149.9	5072.5	4972.3	4904.0	4785.6	4685.4	4653.5	4649.0
7.5°	5714.5	5709.9	5723.6	5664.4	5518.7	5354.8	5218.2	5026.9	4863.0	4794.7	4776.5
10°	6329.2	6324.6	6311.0	6210.8	6015.0	5760.0	5555.1	5291.0	5045.1	4935.9	4913.1
12.5°	7035.0	7025.9	6994.0	6848.3	6579.6	6251.8	5955.8	5614.3	5286.5	5136.2	5086.1
15°	7822.7	7809.0	7749.8	7572.3	7212.5	6798.2	6415.7	5978.6	5577.9	5382.1	5313.8
17.5°	8651.4	8651.4	8560.3	8296.2	7895.6	7381.0	6907.5	6352.0	5883.0	5641.6	5559.7
20°	9493.8	9489.2	9375.4	9056.7	8583.1	7991.2	7390.1	6780.0	6197.1	5905.7	5805.6
22.5°	10381.7	10372.6	10231.4	9867.2	9302.5	8633.2	7932.0	7203.4	6543.2	6192.6	6065.1
25°	11401.6	11388.0	11215.0	10768.7	10099.4	9343.5	8542.1	7699.8	6939.3	6511.3	6361.1
27.5°	12485.4	12467.1	12262.2	11743.2	11010.1	10099.4	9216.0	8273.5	7376.5	6866.5	6698.0
30°	13450.7	13437.0	13213.9	12681.1	11838.8	10850.7	9858.1	8847.2	7836.4	7244.4	7035.0
32.5°	14179.2	14179.2	13978.9	13455.2	12581.0	11570.1	10504.6	9389.1	8314.5	7649.7	7403.8
35°	14620.9	14634.5	14461.5	14042.6	13218.4	12248.6	11174.0	10026.5	8824.4	8082.2	7818.1
37.5°	14684.6	14730.2	14630.0	14347.7	13660.1	12813.2	11829.7	10641.2	9352.6	8519.4	8223.4
40°	14388.7	14420.5	14425.1	14315.8	13842.3	13218.4	12407.9	11292.4	9912.7	8979.3	8637.8
42.5°	13796.7	13819.5	13860.5	13892.3	13710.2	13396.0	12849.6	11898.0	10509.2	9448.3	9047.6
45°	13031.8	13027.2	13095.5	13232.1	13223.0	13295.9	13095.5	12448.9	11128.4	9981.0	9502.9
47.5°	11888.9	11866.1	12107.4	12417.1	12571.9	12913.4	13100.1	12881.5	11802.3	10568.4	10022.0
50°	10099.4	10076.6	10604.8	11333.3	11788.7	12307.8	12849.6	13141.0	12508.1	11228.6	10586.6
52.5°	7922.9	7900.1	8569.4	9844.4	10837.0	11592.9	12344.2	13200.2	13177.5	11966.3	11224.1
55°	5892.1	5873.9	6525.0	7904.7	9512.0	10764.2	11724.9	13045.4	13805.8	12813.2	11998.1
57.5°	4152.7	4143.6	4708.2	5851.1	7809.0	9753.3	11128.4	12744.9	14384.1	13733.0	12872.4
60°	2914.2	2900.5	3310.3	4193.7	5905.7	8227.9	10536.5	12344.2	14816.7	14639.1	13801.3
62.5°	1962.5	1953.4	2244.8	2982.5	4193.7	6333.7	9639.5	12075.5	15062.6	15549.8	14739.3
65°	1489.0	1484.4	1616.4	2021.7	2968.8	4548.8	8214.3	12043.7	15094.4	16232.8	15536.1
67.5°	1202.1	1206.6	1279.5	1511.7	2053.6	3232.9	6370.2	11843.3	14926.0	16465.0	15923.1
70°	983.5	983.5	1015.4	1170.2	1516.3	2181.1	4448.6	10932.7	14457.0	15859.4	15463.3
72.5°	751.3	755.9	856.0	947.1	1142.9	1529.9	2850.4	9047.6	13350.5	13983.4	13682.9
75°	596.5	591.9	651.1	778.6	887.9	1092.8	1748.5	6488.6	11360.7	10928.1	10736.9
77.5°	428.0	423.5	469.0	578.3	673.9	774.1	1042.7	3273.9	6178.9	5678.1	5536.9
80°	291.4	282.3	323.3	400.7	446.2	455.3	510.0	1256.7	2695.6	2540.8	2508.9
82.5°	150.3	150.3	173.0	227.7	232.2	236.8	227.7	405.3	892.5	833.3	796.8
85°	59.2	59.2	63.7	77.4	77.4	82.0	82.0	104.7	95.6	91.1	86.5
87.5°	4.6	4.6	9.1	9.1	13.7	13.7	13.7	18.2	22.8	22.8	22.8
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°	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8	4507.8
2.5°	4544.3	4526.1	4466.9	4453.2	4444.1	4430.4	4435.0	4403.1	4389.5	4394.0	4375.8
5°	4626.2	4594.4	4521.5	4489.6	4480.5	4466.9	4480.5	4457.8	4435.0	4444.1	4435.0
7.5°	4740.1	4694.5	4603.5	4571.6	4567.0	4553.4	4571.6	4553.4	4535.2	4544.3	4526.1
10°	4858.4	4799.3	4699.1	4667.2	4667.2	4662.7	4680.9	4653.5	4635.3	4639.9	4630.8
12.5°	5031.5	4954.1	4844.8	4817.5	4803.8	4817.5	4822.0	4785.6	4753.7	4758.3	4744.6
15°	5240.9	5154.4	5036.0	4995.1	4985.9	4981.4	4963.2	4917.6	4876.7	4872.1	4858.4
17.5°	5468.6	5359.3	5218.2	5177.2	5136.2	5122.5	5077.0	5017.8	4954.1	4954.1	4935.9
20°	5687.2	5564.2	5395.7	5336.6	5277.4	5222.7	5145.3	5049.7	4967.7	4954.1	4935.9
22.5°	5923.9	5778.2	5582.4	5495.9	5391.2	5281.9	5149.9	5022.4	4917.6	4894.9	4881.2
25°	6188.0	6005.9	5773.7	5646.2	5477.7	5309.2	5113.4	4949.5	4826.6	4790.1	4781.0
27.5°	6479.5	6260.9	5978.6	5791.9	5546.0	5281.9	5031.5	4835.7	4685.4	4639.9	4626.2
30°	6775.4	6515.9	6165.3	5892.1	5546.0	5195.4	4881.2	4653.5	4480.5	4416.8	4407.7
32.5°	7071.4	6780.0	6333.7	5946.7	5491.4	5049.7	4685.4	4416.8	4221.0	4143.6	4161.8
35°	7426.6	7071.4	6488.6	5969.5	5400.3	4872.1	4462.3	4148.1	3947.8	3879.5	3893.1
37.5°	7795.4	7362.8	6611.5	5951.3	5272.8	4671.8	4211.9	3906.8	3656.4	3538.0	3551.6
40°	8114.1	7626.9	6698.0	5887.5	5108.9	4444.1	3966.0	3565.3	3219.2	3105.4	3091.7
42.5°	8414.6	7822.7	6743.5	5791.9	4922.2	4180.0	3615.4	3100.8	2754.8	2613.6	2618.2
45°	8728.8	8013.9	6725.3	5664.4	4690.0	3870.4	3164.6	2645.5	2340.4	2212.9	2217.5
47.5°	9088.5	8218.8	6707.1	5527.8	4407.7	3469.7	2732.0	2244.8	1980.7	1889.7	1880.5
50°	9471.0	8446.5	6684.4	5359.3	4093.5	3023.4	2304.0	1871.4	1648.3	1589.1	1575.5
52.5°	9903.6	8692.4	6670.7	5159.0	3715.6	2549.9	1921.5	1543.6	1393.3	1352.4	1347.8
55°	10422.7	8979.3	6688.9	4917.6	3260.2	2103.7	1598.2	1329.6	1229.4	1206.6	1202.1
57.5°	11055.6	9348.1	6743.5	4635.3	2782.1	1716.6	1361.5	1197.5	1133.8	1115.6	1115.6
60°	11743.2	9767.0	6843.7	4316.6	2304.0	1416.1	1206.6	1092.8	1065.5	1088.3	1088.3
62.5°	12485.4	10258.8	7021.3	3929.6	1857.8	1197.5	1083.7	1006.3	988.1	1033.6	1038.2
65°	13172.9	10736.9	7135.1	3465.1	1475.3	1038.2	988.1	919.8	928.9	974.4	969.9
67.5°	13596.4	11133.0	6975.8	2882.3	1170.2	919.8	887.9	828.7	851.5	887.9	892.5
70°	13336.8	10909.9	6188.0	2176.5	915.2	801.4	778.6	742.2	760.4	805.9	824.2
72.5°	12066.4	9771.5	4812.9	1470.7	737.6	673.9	683.0	664.8	687.6	728.5	769.5
75°	9794.3	7385.6	3228.3	942.5	582.8	573.7	587.4	573.7	582.8	623.8	646.6
77.5°	5113.4	3601.7	1607.3	587.4	432.6	446.2	469.0	473.6	500.9	510.0	519.1
80°	2386.0	1621.0	669.3	327.8	286.9	314.2	359.7	364.3	373.4	387.0	391.6
82.5°	778.6	487.2	309.6	177.6	163.9	177.6	232.2	277.8	282.3	309.6	309.6
85°	82.0	50.1	68.3	72.9	63.7	77.4	104.7	100.2	45.5	27.3	27.3
87.5°	22.8	18.2	22.8	22.8	18.2	18.2	13.7	4.6	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)