

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: P842174

Luminaire Tested: **ARCH4-280-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40083 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
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

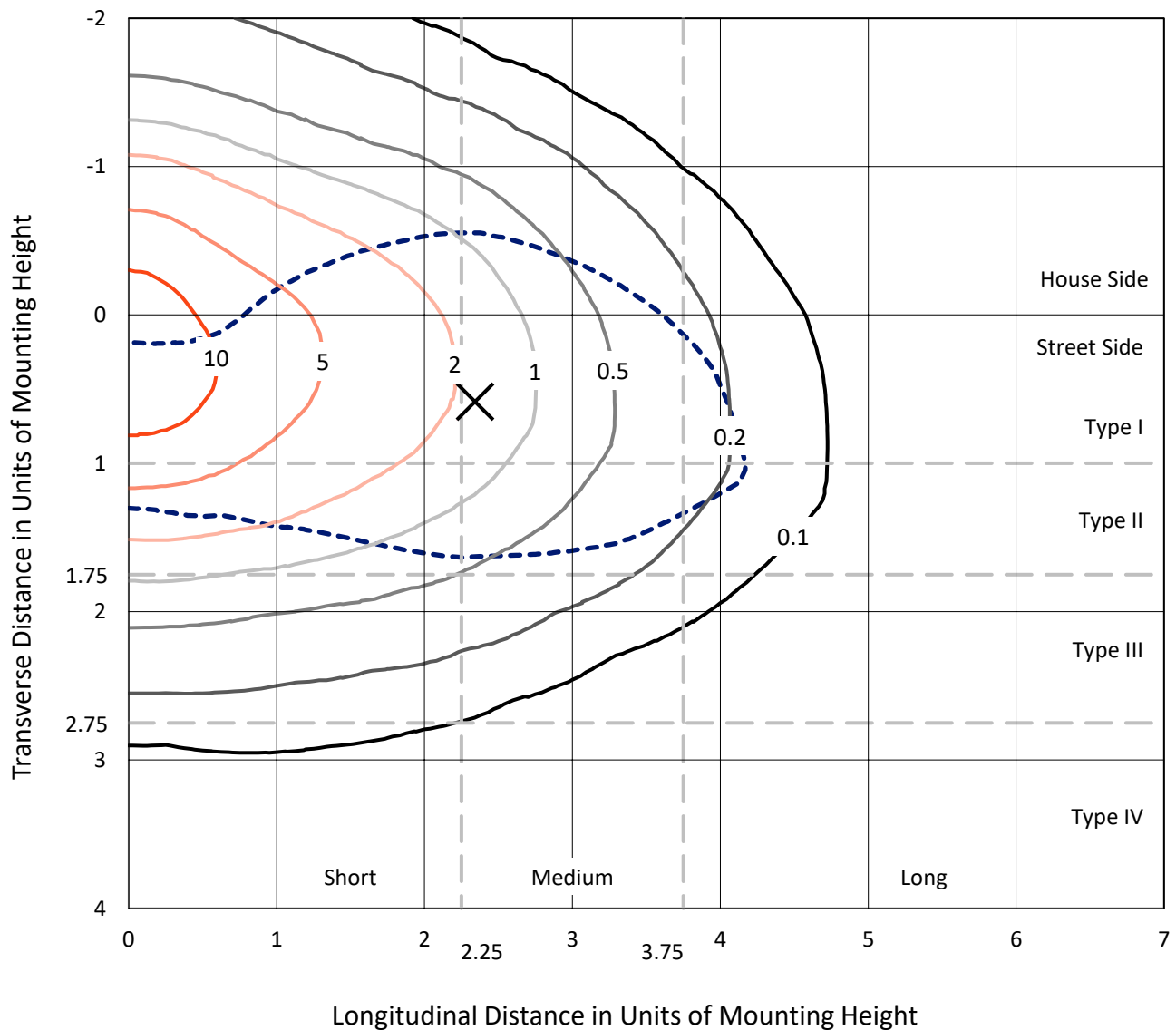


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Iso-Footcandle Lines of Horizontal Illumination

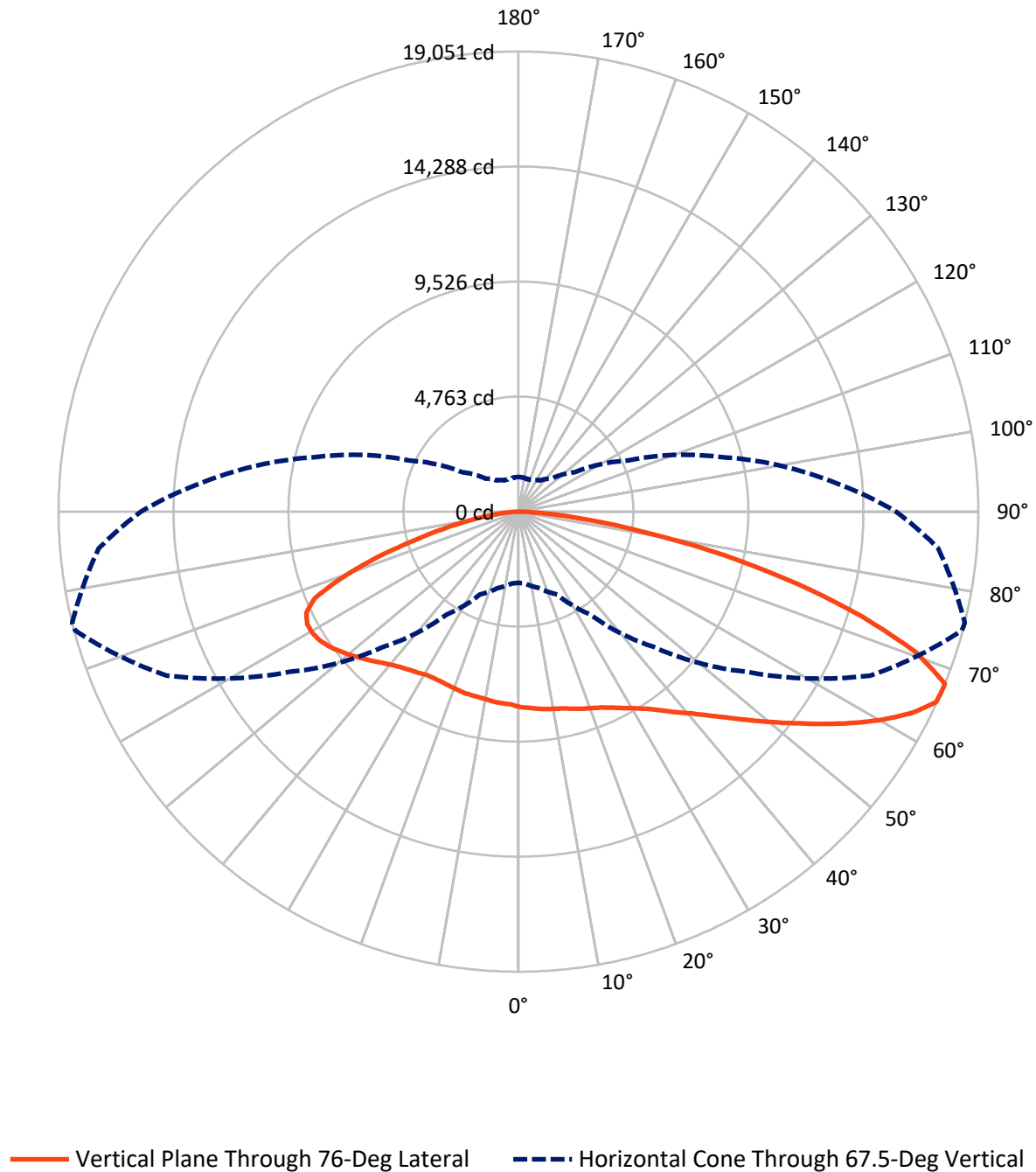
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	13544.2	0.0	13544.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	26538.8	0.0	26538.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	40083.0	0.0	40083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.7	1.9
10°-20°	2386.9	6.0
20°-30°	4055.4	10.1
30°-40°	5770.3	14.4
40°-50°	7287.6	18.2
50°-60°	7890.2	19.7
60°-70°	7338.8	18.3
70°-80°	3941.6	9.8
80°-90°	631.6	1.6
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°	40083.0	100.0
0°-180°	40083.0	100.0

Coefficient of Utilization



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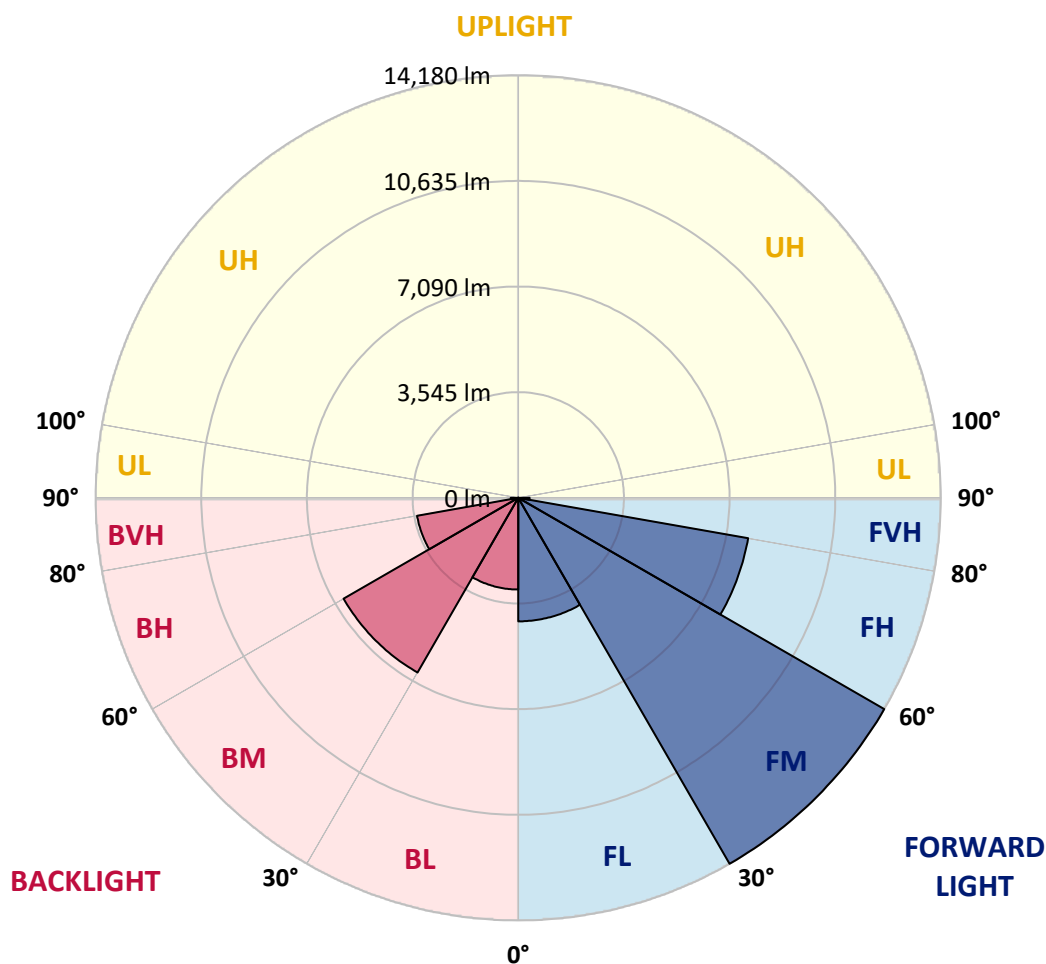
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4145.0	10.3			
FM	(30°-60°)	14179.8	35.4			
FH	(60°-80°)	7831.9	19.5			G4/12000
FVH	(80°-90°)	382.1	1.0			G3/500
BL	(0°-30°)	3078.0	7.7	B4/5000		
BM	(30°-60°)	6768.2	16.9	B4/8500		
BH	(60°-80°)	3448.5	8.6	B4/5000		G4/5000
BVH	(80°-90°)	249.5	0.6			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7
2.5°	8342.3	8327.4	8267.8	8275.3	8275.3	8267.8	8178.5	8141.3	8141.3	8133.9	8052.0
5°	8639.9	8617.6	8550.6	8535.7	8506.0	8468.8	8327.4	8245.5	8208.3	8200.9	8089.2
7.5°	8989.7	8959.9	8878.1	8833.4	8759.0	8662.3	8483.7	8357.1	8267.8	8260.4	8104.1
10°	9339.5	9309.7	9212.9	9131.1	9026.9	8870.6	8639.9	8453.9	8312.5	8297.6	8111.6
12.5°	9756.2	9726.4	9607.4	9503.2	9346.9	9138.5	8833.4	8580.4	8386.9	8364.6	8133.9
15°	10195.3	10150.6	10031.5	9912.5	9719.0	9451.1	9086.4	8751.6	8506.0	8468.8	8200.9
17.5°	10559.9	10500.4	10403.6	10284.6	10068.8	9756.2	9339.5	8922.7	8617.6	8587.8	8267.8
20°	10872.5	10827.8	10723.6	10612.0	10381.3	10039.0	9577.6	9093.9	8721.8	8684.6	8319.9
22.5°	11170.1	11110.6	11051.1	10969.2	10716.2	10336.7	9852.9	9302.2	8855.7	8811.1	8386.9
25°	11512.5	11445.5	11423.2	11378.5	11080.8	10693.9	10187.8	9562.7	9041.8	8989.7	8506.0
27.5°	11936.6	11862.2	11817.6	11817.6	11460.4	11058.5	10545.0	9867.8	9257.6	9212.9	8654.8
30°	12383.2	12293.9	12226.9	12226.9	11825.0	11423.2	10894.8	10172.9	9503.2	9451.1	8848.3
32.5°	12777.6	12688.3	12613.8	12606.4	12189.7	11787.8	11259.4	10507.8	9800.8	9733.9	9086.4
35°	13082.7	13000.8	12933.8	12948.7	12554.3	12159.9	11668.7	10954.3	10172.9	10098.5	9399.0
37.5°	13268.7	13239.0	13201.8	13253.8	12889.2	12517.1	12092.9	11386.0	10597.1	10530.1	9786.0
40°	13365.5	13343.1	13492.0	13559.0	13172.0	12837.1	12517.1	11832.5	11058.5	10984.1	10232.5
42.5°	13506.9	13692.9	13752.4	13737.6	13380.4	13082.7	12904.1	12316.2	11601.8	11534.8	10768.3
45°	13000.8	12956.2	13283.6	13462.2	13395.2	13239.0	13268.7	12896.6	12234.3	12167.3	11386.0
47.5°	12323.6	12264.1	12450.1	12889.2	13149.7	13298.5	13596.2	13499.4	12963.6	12904.1	12107.8
50°	10894.8	10976.7	11668.7	12256.6	12770.1	13283.6	13871.5	14146.9	13767.3	13707.8	12881.8
52.5°	9309.7	9391.6	10113.4	11467.8	12308.7	13172.0	14072.4	14794.3	14638.0	14571.0	13707.8
55°	8156.2	8334.8	9153.4	10135.7	11653.9	12822.2	14191.5	15456.6	15575.7	15516.2	14608.3
57.5°	7010.2	7144.1	7761.8	8632.5	10760.8	12212.0	14184.1	16074.3	16558.0	16498.5	15523.6
60°	5663.2	5834.4	6325.5	7263.2	9570.2	11482.7	13975.7	16558.0	17503.1	17458.5	16409.2
62.5°	4740.4	4792.5	5142.3	5953.4	8037.1	10559.9	13506.9	16818.5	18358.9	18329.2	17205.4
65°	3817.6	3825.1	4145.1	4822.3	6556.2	9413.9	12710.6	16721.7	19006.4	19021.2	17778.5
67.5°	2947.0	2984.2	3274.4	3787.9	5209.3	7925.5	11572.0	16066.8	19013.8	19051.0	17451.0
70°	2039.1	2068.8	2507.9	3006.5	4026.0	6318.1	10031.5	14332.9	17451.0	17480.8	15642.7
72.5°	1436.3	1451.2	1920.0	2403.7	3147.9	4762.8	7568.3	11854.8	14876.2	14898.5	13157.1
75°	1071.6	1086.5	1354.4	1823.2	2411.1	3296.7	5172.1	9079.0	11884.6	11884.6	10388.8
77.5°	759.1	766.5	878.1	1257.7	1607.4	2225.1	3110.7	5946.0	8721.8	8736.7	7568.3
80°	513.5	520.9	573.0	848.4	1004.6	1205.6	1689.3	3118.1	5499.5	5521.8	4807.4
82.5°	267.9	282.8	320.0	431.6	506.0	669.8	870.7	1585.1	3043.7	3103.2	2887.4
85°	104.2	104.2	119.1	141.4	186.0	260.5	401.9	602.8	1376.7	1421.4	1272.5
87.5°	37.2	37.2	44.7	44.7	52.1	59.5	67.0	89.3	156.3	156.3	148.8
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°	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7
2.5°	8022.3	8022.3	7985.1	7999.9	7992.5	7977.6	7962.7	7985.1	7962.7	7910.6	7903.2
5°	8037.1	8022.3	7962.7	7955.3	7933.0	7903.2	7866.0	7880.9	7843.7	7799.0	7791.6
7.5°	8044.6	8014.8	7933.0	7903.2	7858.5	7799.0	7739.5	7739.5	7687.4	7642.7	7635.3
10°	8029.7	7992.5	7880.9	7821.3	7739.5	7650.2	7568.3	7546.0	7486.4	7434.4	7434.4
12.5°	8037.1	7985.1	7843.7	7746.9	7635.3	7523.7	7419.5	7389.7	7337.6	7285.5	7278.1
15°	8081.8	8007.4	7828.8	7702.3	7538.5	7412.0	7300.4	7278.1	7233.4	7196.2	7196.2
17.5°	8126.4	8029.7	7806.4	7627.8	7426.9	7285.5	7181.3	7181.3	7151.6	7129.2	7129.2
20°	8148.8	8037.1	7761.8	7523.7	7293.0	7144.1	7047.4	7062.3	7054.8	7047.4	7047.4
22.5°	8200.9	8052.0	7724.6	7426.9	7151.6	6995.3	6906.0	6928.3	6920.9	6920.9	6928.3
25°	8282.7	8089.2	7694.8	7337.6	7017.6	6846.5	6749.7	6764.6	6764.6	6764.6	6764.6
27.5°	8394.3	8163.7	7687.4	7255.8	6883.7	6690.2	6571.1	6571.1	6541.3	6548.8	6556.2
30°	8565.5	8305.0	7702.3	7181.3	6742.3	6496.7	6355.3	6333.0	6325.5	6340.4	6347.9
32.5°	8773.9	8498.5	7791.6	7129.2	6593.4	6280.9	6102.3	6094.8	6072.5	6072.5	6072.5
35°	9034.3	8684.6	7873.4	7121.8	6444.6	6050.2	5856.7	5834.4	5782.3	5760.0	5760.0
37.5°	9369.2	8974.8	7970.2	7069.7	6318.1	5826.9	5596.2	5521.8	5462.3	5454.8	5454.8
40°	9778.5	9302.2	8111.6	7010.2	6184.1	5596.2	5291.1	5164.6	5172.1	5201.8	5201.8
42.5°	10262.2	9704.1	8290.2	6980.4	5990.6	5358.1	4933.9	4785.1	4837.2	4866.9	4874.4
45°	10827.8	10180.4	8491.1	6943.2	5812.0	5090.2	4554.4	4368.3	4390.7	4398.1	4405.5
47.5°	11482.7	10708.7	8699.5	6913.4	5611.1	4755.3	4137.6	3892.1	3884.6	3840.0	3854.9
50°	12167.3	11266.9	8915.3	6861.3	5365.5	4360.9	3698.6	3408.3	3348.8	3281.8	3289.3
52.5°	12896.6	11839.9	9116.2	6779.5	5060.4	3959.0	3281.8	2969.3	2850.2	2775.8	2790.7
55°	13700.4	12427.8	9309.7	6653.0	4740.4	3557.2	2909.7	2589.7	2440.9	2381.4	2388.8
57.5°	14437.1	12993.4	9451.1	6496.7	4390.7	3192.5	2582.3	2269.7	2173.0	2165.6	2173.0
60°	15151.5	13469.7	9510.6	6280.9	4033.5	2857.7	2277.2	2039.1	1972.1	2009.3	2016.7
62.5°	15754.3	13774.8	9480.9	5990.6	3668.8	2537.7	2031.6	1860.4	1815.8	1890.2	1897.7
65°	16104.1	13871.5	9272.5	5573.9	3274.4	2225.1	1800.9	1614.9	1592.5	1637.2	1659.5
67.5°	15642.7	13268.7	8706.9	5000.9	2835.3	1934.9	1577.7	1428.8	1391.6	1428.8	1428.8
70°	13864.1	11497.6	7367.4	4093.0	2351.6	1652.1	1369.3	1265.1	1235.3	1265.1	1257.7
72.5°	11549.7	9562.7	5804.6	3192.5	1853.0	1391.6	1190.7	1093.9	1064.2	1034.4	1019.5
75°	8959.9	7263.2	4212.1	2344.2	1399.1	1116.3	997.2	907.9	833.5	863.2	848.4
77.5°	6563.7	5097.6	2984.2	1622.3	1004.6	863.2	781.4	714.4	662.3	721.9	714.4
80°	4226.9	3296.7	1994.4	1086.5	692.1	602.8	573.0	535.8	587.9	766.5	781.4
82.5°	2582.3	2091.1	1190.7	707.0	453.9	401.9	372.1	372.1	602.8	662.3	669.8
85°	1153.5	1108.8	647.4	364.6	253.0	230.7	208.4	267.9	245.6	178.6	186.0
87.5°	186.0	193.5	141.4	126.5	96.7	96.7	74.4	52.1	37.2	22.3	22.3
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)