

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: P836165

Luminaire Tested: **ARCH3-150-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18772 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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



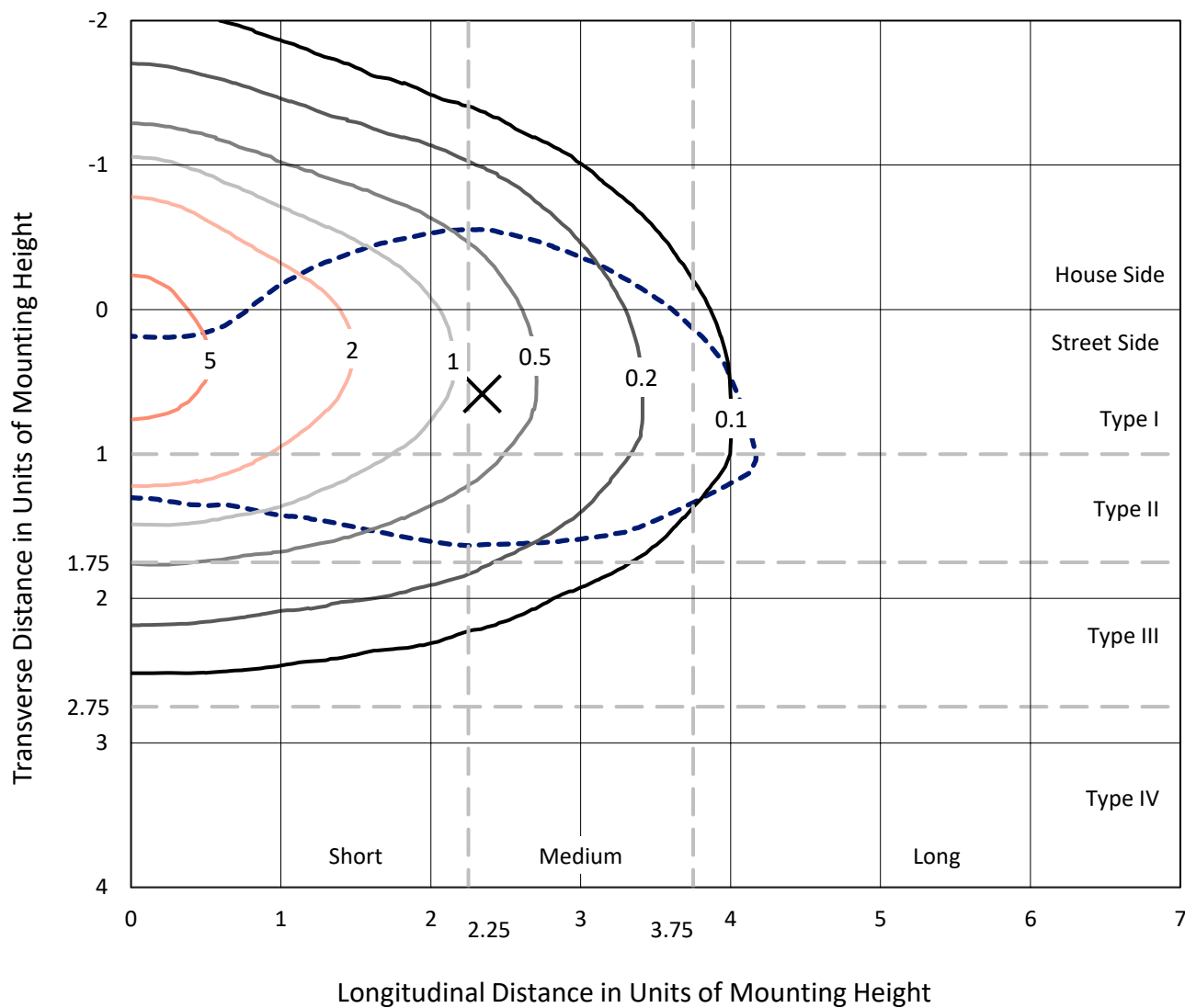
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Iso-Footcandle Lines of Horizontal Illumination

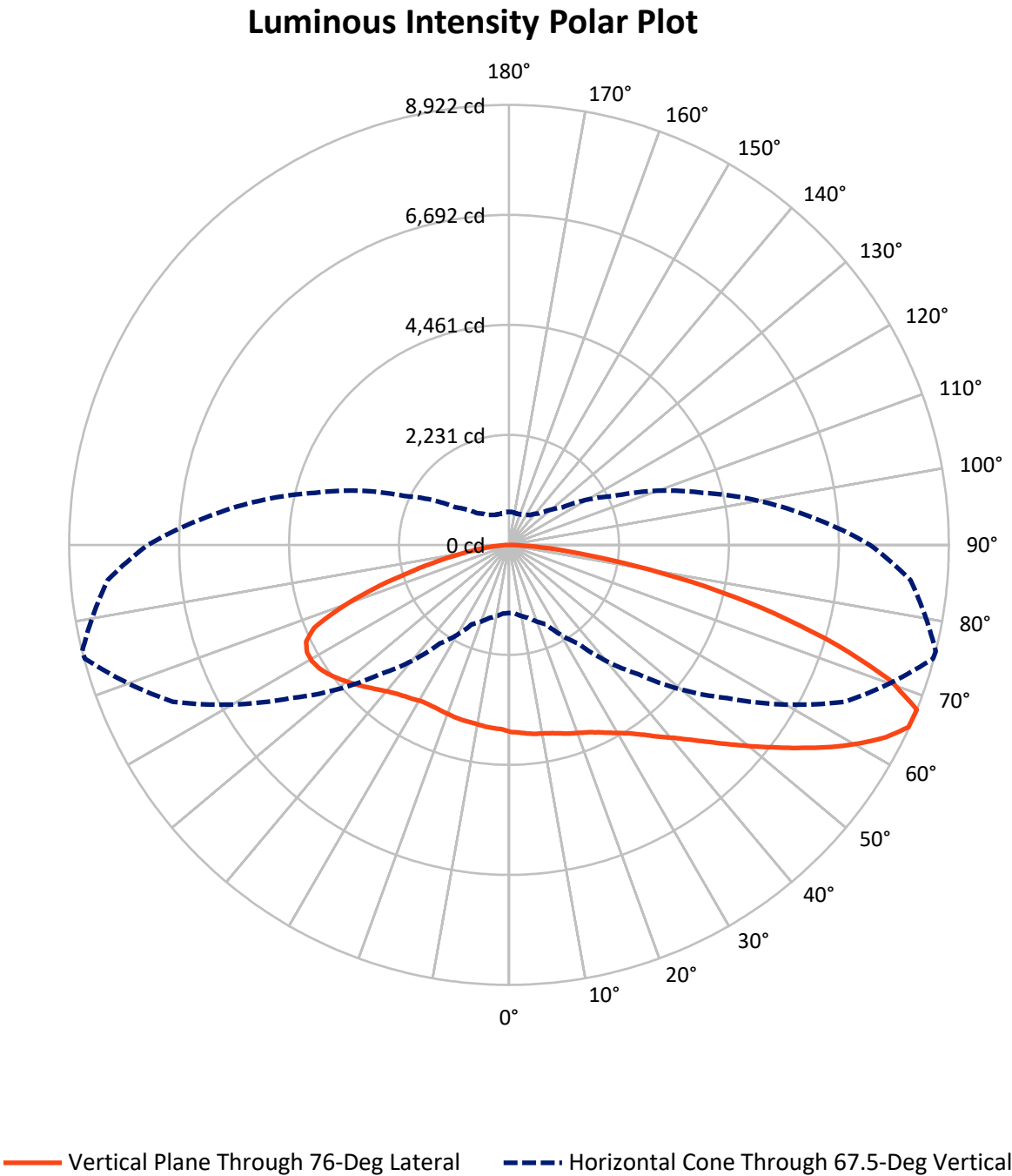
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6343.2	0.0	6343.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12428.8	0.0	12428.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	18772.0	0.0	18772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.6	1.9
10°-20°	1117.8	6.0
20°-30°	1899.2	10.1
30°-40°	2702.4	14.4
40°-50°	3413.0	18.2
50°-60°	3695.2	19.7
60°-70°	3437.0	18.3
70°-80°	1845.9	9.8
80°-90°	295.8	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°	18772.0	100.0
0°-180°	18772.0	100.0

Coefficient of Utilization



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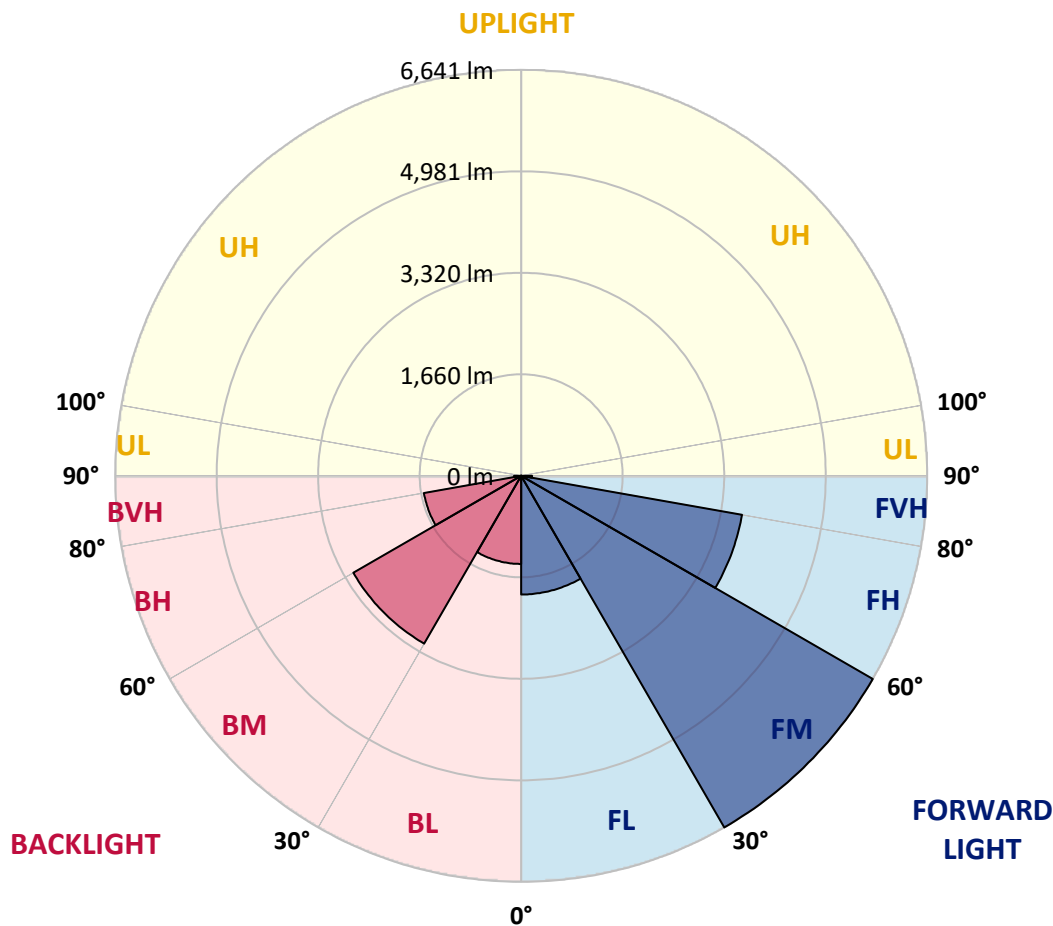
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1941.2	10.3			
FM	(30°-60°)	6640.8	35.4			
FH	(60°-80°)	3667.9	19.5			G2/5000
FVH	(80°-90°)	178.9	1.0			G2/225
BL	(0°-30°)	1441.5	7.7	B3/2500		
BM	(30°-60°)	3169.8	16.9	B3/5000		
BH	(60°-80°)	1615.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	116.9	0.6			G2/225
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°	76°	85°
0°	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9
2.5°	3906.9	3899.9	3872.1	3875.5	3875.5	3872.1	3830.2	3812.8	3812.8	3809.3	3771.0
5°	4046.3	4035.9	4004.5	3997.5	3983.6	3966.2	3899.9	3861.6	3844.2	3840.7	3788.4
7.5°	4210.1	4196.2	4157.8	4136.9	4102.1	4056.8	3973.1	3913.9	3872.1	3868.6	3795.4
10°	4373.9	4360.0	4314.7	4276.3	4227.6	4154.4	4046.3	3959.2	3893.0	3886.0	3798.9
12.5°	4569.1	4555.2	4499.4	4450.6	4377.4	4279.8	4136.9	4018.4	3927.8	3917.4	3809.3
15°	4774.7	4753.8	4698.1	4642.3	4551.7	4426.2	4255.4	4098.6	3983.6	3966.2	3840.7
17.5°	4945.5	4917.6	4872.3	4816.6	4715.5	4569.1	4373.9	4178.8	4035.9	4021.9	3872.1
20°	5091.9	5071.0	5022.2	4969.9	4861.9	4701.5	4485.5	4258.9	4084.7	4067.2	3896.5
22.5°	5231.3	5203.4	5175.5	5137.2	5018.7	4840.9	4614.4	4356.5	4147.4	4126.5	3927.8
25°	5391.6	5360.2	5349.8	5328.9	5189.5	5008.2	4771.2	4478.5	4234.5	4210.1	3983.6
27.5°	5590.3	5555.4	5534.5	5534.5	5367.2	5179.0	4938.5	4621.4	4335.6	4314.7	4053.3
30°	5799.4	5757.6	5726.2	5726.2	5538.0	5349.8	5102.3	4764.3	4450.6	4426.2	4143.9
32.5°	5984.1	5942.3	5907.4	5903.9	5708.8	5520.6	5273.1	4921.1	4590.0	4558.6	4255.4
35°	6127.0	6088.7	6057.3	6064.3	5879.5	5694.8	5464.8	5130.2	4764.3	4729.4	4401.8
37.5°	6214.1	6200.2	6182.8	6207.1	6036.4	5862.1	5663.5	5332.4	4962.9	4931.6	4583.0
40°	6259.4	6249.0	6318.7	6350.0	6168.8	6012.0	5862.1	5541.5	5179.0	5144.2	4792.2
42.5°	6325.6	6412.8	6440.7	6433.7	6266.4	6127.0	6043.3	5768.0	5433.4	5402.1	5043.1
45°	6088.7	6067.7	6221.1	6304.7	6273.4	6200.2	6214.1	6039.9	5729.7	5698.3	5332.4
47.5°	5771.5	5743.6	5830.7	6036.4	6158.4	6228.1	6367.5	6322.2	6071.2	6043.3	5670.4
50°	5102.3	5140.7	5464.8	5740.1	5980.6	6221.1	6496.4	6625.4	6447.6	6419.7	6032.9
52.5°	4360.0	4398.3	4736.4	5370.7	5764.5	6168.8	6590.5	6928.6	6855.4	6824.0	6419.7
55°	3819.8	3903.4	4286.8	4746.8	5457.8	6005.0	6646.3	7238.8	7294.5	7266.7	6841.5
57.5°	3283.1	3345.8	3635.1	4042.8	5039.6	5719.2	6642.8	7528.0	7754.6	7726.7	7270.1
60°	2652.2	2732.4	2962.4	3401.6	4482.0	5377.7	6545.2	7754.6	8197.2	8176.3	7684.9
62.5°	2220.1	2244.5	2408.3	2788.2	3764.0	4945.5	6325.6	7876.6	8598.0	8584.1	8057.8
65°	1787.9	1791.4	1941.3	2258.4	3070.5	4408.8	5952.7	7831.3	8901.2	8908.2	8326.2
67.5°	1380.1	1397.6	1533.5	1774.0	2439.6	3711.7	5419.5	7524.6	8904.7	8922.1	8172.8
70°	954.9	968.9	1174.5	1408.0	1885.5	2958.9	4698.1	6712.5	8172.8	8186.7	7325.9
72.5°	672.6	679.6	899.2	1125.7	1474.2	2230.5	3544.5	5551.9	6966.9	6977.4	6161.8
75°	501.9	508.8	634.3	853.9	1129.2	1543.9	2422.2	4251.9	5565.9	5565.9	4865.3
77.5°	355.5	359.0	411.3	589.0	752.8	1042.1	1456.8	2784.7	4084.7	4091.6	3544.5
80°	240.5	244.0	268.4	397.3	470.5	564.6	791.1	1460.3	2575.6	2586.0	2251.4
82.5°	125.5	132.4	149.9	202.1	237.0	313.7	407.8	742.3	1425.4	1453.3	1352.3
85°	48.8	48.8	55.8	66.2	87.1	122.0	188.2	282.3	644.8	665.7	596.0
87.5°	17.4	17.4	20.9	20.9	24.4	27.9	31.4	41.8	73.2	73.2	69.7
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°	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9
2.5°	3757.1	3757.1	3739.6	3746.6	3743.1	3736.1	3729.2	3739.6	3729.2	3704.8	3701.3
5°	3764.0	3757.1	3729.2	3725.7	3715.2	3701.3	3683.9	3690.8	3673.4	3652.5	3649.0
7.5°	3767.5	3753.6	3715.2	3701.3	3680.4	3652.5	3624.6	3624.6	3600.2	3579.3	3575.8
10°	3760.5	3743.1	3690.8	3662.9	3624.6	3582.8	3544.5	3534.0	3506.1	3481.7	3481.7
12.5°	3764.0	3739.6	3673.4	3628.1	3575.8	3523.5	3474.7	3460.8	3436.4	3412.0	3408.5
15°	3784.9	3750.1	3666.4	3607.2	3530.5	3471.3	3419.0	3408.5	3387.6	3370.2	3370.2
17.5°	3805.8	3760.5	3656.0	3572.3	3478.2	3412.0	3363.2	3363.2	3349.3	3338.8	3338.8
20°	3816.3	3764.0	3635.1	3523.5	3415.5	3345.8	3300.5	3307.5	3304.0	3300.5	3300.5
22.5°	3840.7	3771.0	3617.6	3478.2	3349.3	3276.1	3234.3	3244.7	3241.2	3241.2	3244.7
25°	3879.0	3788.4	3603.7	3436.4	3286.5	3206.4	3161.1	3168.1	3168.1	3168.1	3168.1
27.5°	3931.3	3823.3	3600.2	3398.1	3223.8	3133.2	3077.4	3077.4	3063.5	3067.0	3070.5
30°	4011.5	3889.5	3607.2	3363.2	3157.6	3042.6	2976.4	2965.9	2962.4	2969.4	2972.9
32.5°	4109.1	3980.1	3649.0	3338.8	3087.9	2941.5	2857.9	2854.4	2843.9	2843.9	2843.9
35°	4231.0	4067.2	3687.3	3335.3	3018.2	2833.5	2742.9	2732.4	2708.0	2697.5	2697.5
37.5°	4387.9	4203.2	3732.7	3310.9	2958.9	2728.9	2620.9	2586.0	2558.1	2554.7	2554.7
40°	4579.6	4356.5	3798.9	3283.1	2896.2	2620.9	2478.0	2418.7	2422.2	2436.2	2436.2
42.5°	4806.1	4544.7	3882.5	3269.1	2805.6	2509.3	2310.7	2241.0	2265.4	2279.3	2282.8
45°	5071.0	4767.8	3976.6	3251.7	2721.9	2383.9	2132.9	2045.8	2056.3	2059.8	2063.2
47.5°	5377.7	5015.2	4074.2	3237.8	2627.8	2227.0	1937.8	1822.8	1819.3	1798.4	1805.3
50°	5698.3	5276.6	4175.3	3213.4	2512.8	2042.3	1732.1	1596.2	1568.3	1537.0	1540.5
52.5°	6039.9	5545.0	4269.4	3175.0	2369.9	1854.1	1537.0	1390.6	1334.8	1300.0	1307.0
55°	6416.3	5820.3	4360.0	3115.8	2220.1	1665.9	1362.7	1212.9	1143.1	1115.3	1118.8
57.5°	6761.3	6085.2	4426.2	3042.6	2056.3	1495.2	1209.4	1063.0	1017.7	1014.2	1017.7
60°	7095.9	6308.2	4454.1	2941.5	1889.0	1338.3	1066.5	954.9	923.6	941.0	944.5
62.5°	7378.2	6451.1	4440.2	2805.6	1718.2	1188.5	951.5	871.3	850.4	885.2	888.7
65°	7542.0	6496.4	4342.6	2610.4	1533.5	1042.1	843.4	756.3	745.8	766.7	777.2
67.5°	7325.9	6214.1	4077.7	2342.1	1327.9	906.2	738.9	669.2	651.7	669.2	669.2
70°	6492.9	5384.6	3450.4	1916.9	1101.3	773.7	641.3	592.5	578.5	592.5	589.0
72.5°	5409.0	4478.5	2718.5	1495.2	867.8	651.7	557.6	512.3	498.4	484.4	477.5
75°	4196.2	3401.6	1972.6	1097.8	655.2	522.8	467.0	425.2	390.3	404.3	397.3
77.5°	3074.0	2387.4	1397.6	759.8	470.5	404.3	365.9	334.6	310.2	338.1	334.6
80°	1979.6	1543.9	934.0	508.8	324.1	282.3	268.4	250.9	275.3	359.0	365.9
82.5°	1209.4	979.3	557.6	331.1	212.6	188.2	174.3	174.3	282.3	310.2	313.7
85°	540.2	519.3	303.2	170.8	118.5	108.0	97.6	125.5	115.0	83.6	87.1
87.5°	87.1	90.6	66.2	59.2	45.3	45.3	34.9	24.4	17.4	10.5	10.5
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)