

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: P637563

Luminaire Tested: **IFLD-S-SA6E-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637563
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41566.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 464.2
Input Voltage (V): 120
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: 25 FT



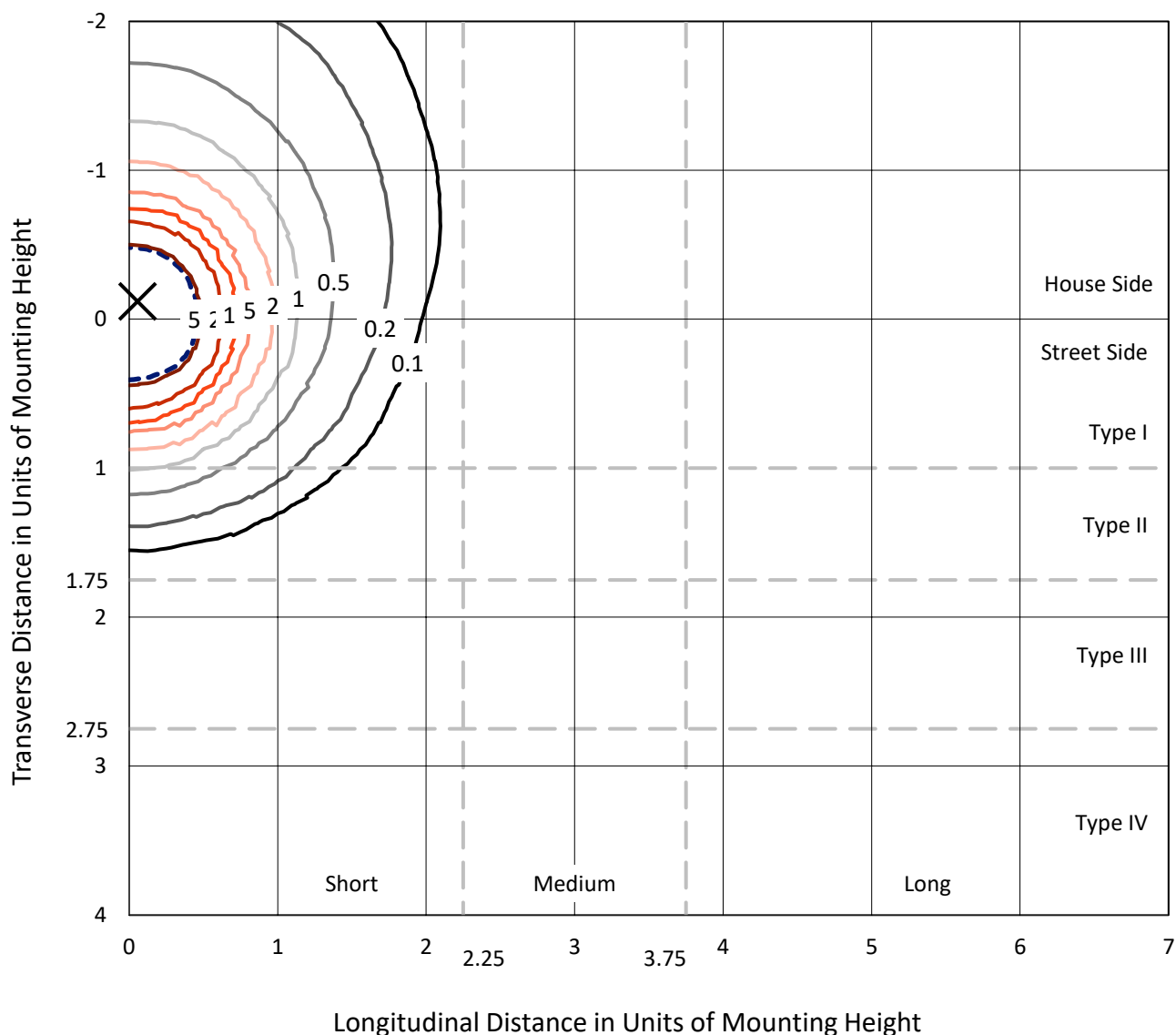
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

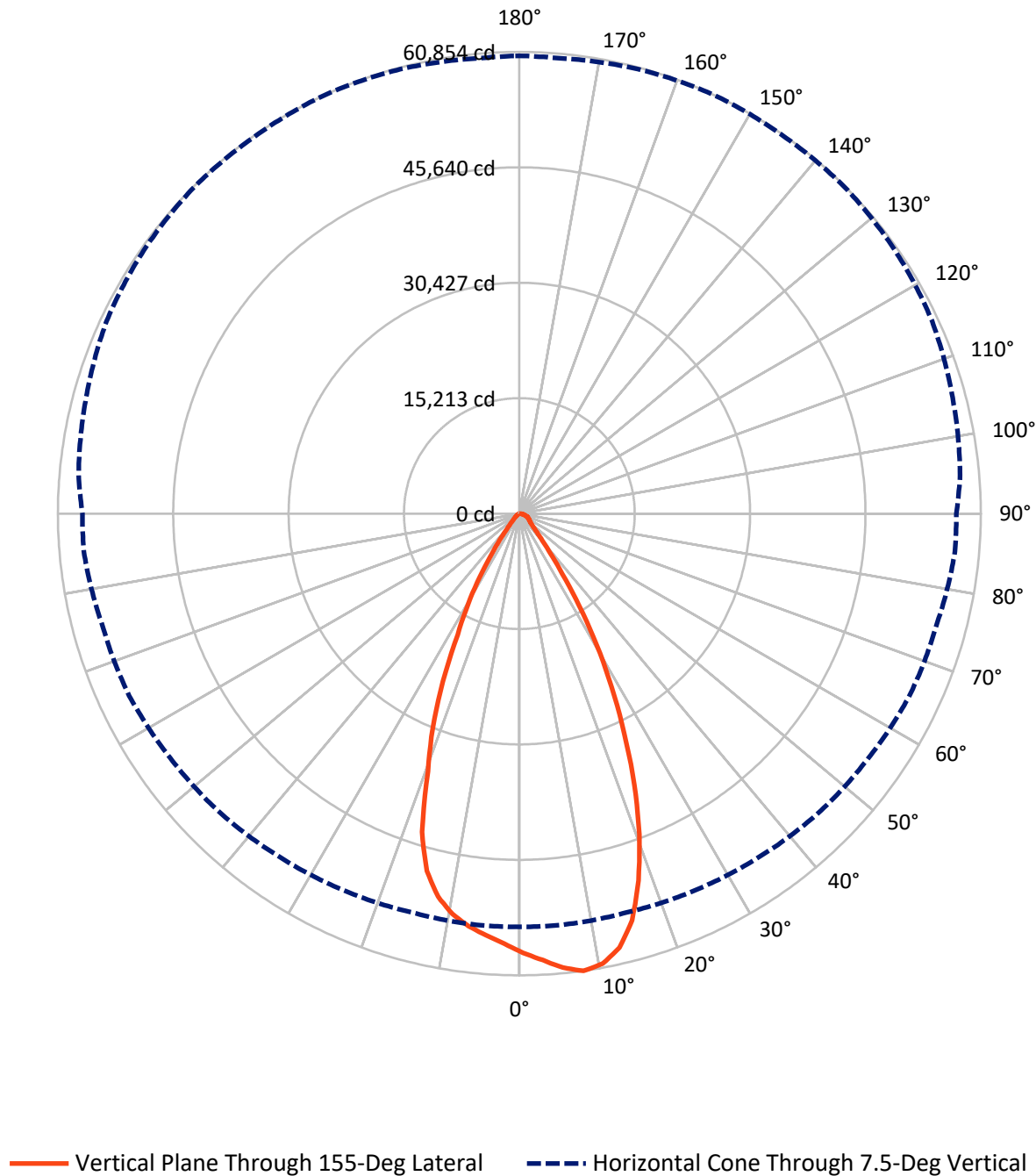


Based on 20 foot mounting height. Maximum calculated value = 147.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22946.5	0.0	22946.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	18620.5	0.0	18620.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	41566.9	0.0	41566.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5521.7	13.3
10°-20°	14317.8	34.4
20°-30°	13119.1	31.6
30°-40°	5300.1	12.8
40°-50°	1554.8	3.7
50°-60°	869.3	2.1
60°-70°	528.0	1.3
70°-80°	268.3	0.6
80°-90°	87.7	0.2
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°	41566.9	100.0
0°-180°	41566.9	100.0

Coefficient of Utilization



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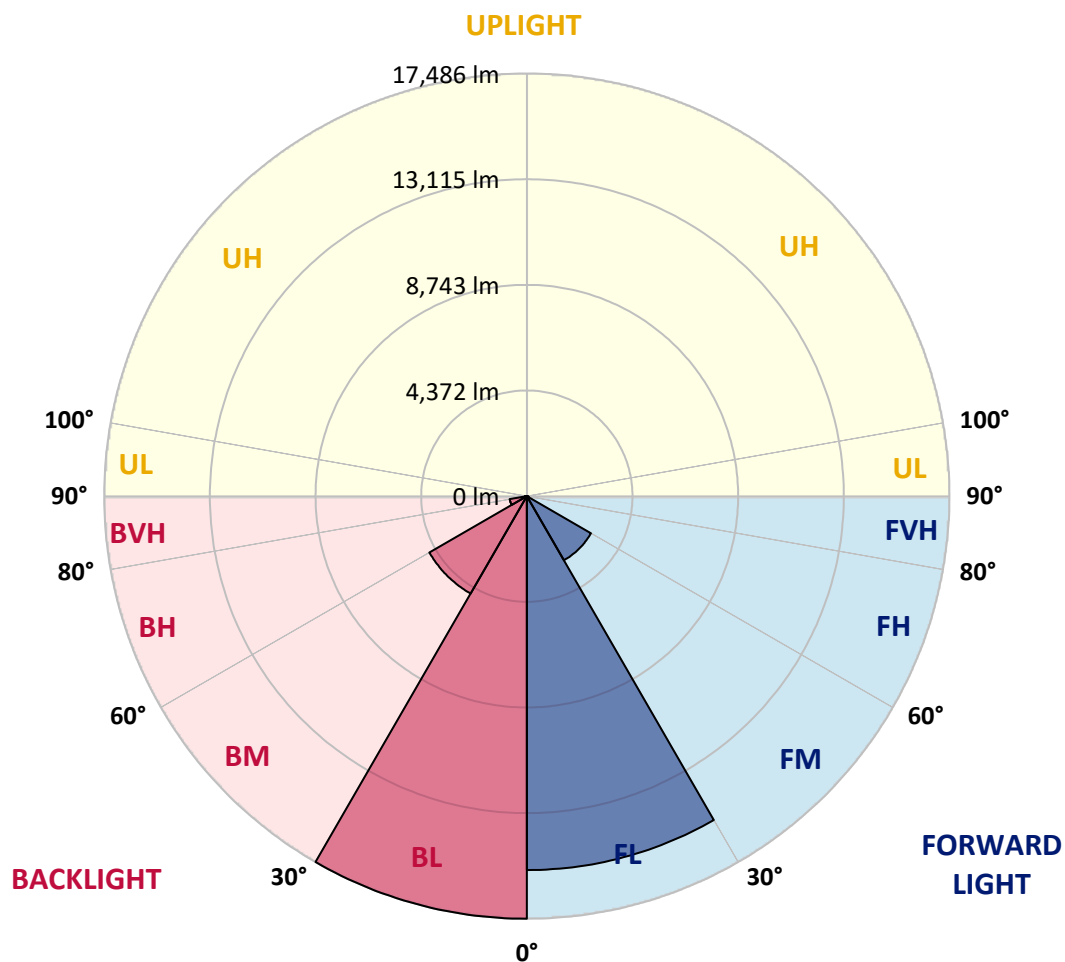
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15472.3	37.2			
FM	(30°-60°)	3066.3	7.4			
FH	(60°-80°)	74.3	0.2			G0/660
FVH	(80°-90°)	7.6	0.0			G0/10
BL	(0°-30°)	17486.4	42.1	B5		
BM	(30°-60°)	4657.9	11.2	B3/5000		
BH	(60°-80°)	722.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	80.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9
2.5°	56650.1	56841.9	56458.4	56712.4	56909.0	57378.7	57417.0	57580.0	57637.5	58064.1
5°	55576.5	55725.1	55413.5	55753.8	56031.8	56448.8	56770.0	57220.5	57469.8	57973.0
7.5°	54459.7	54493.2	54430.9	54790.4	55207.4	55782.6	56180.4	56770.0	56923.3	57642.3
10°	53108.0	52863.5	52983.4	53510.6	54133.7	55015.7	55288.9	55878.4	56151.6	56885.0
12.5°	50951.1	51075.7	50927.1	51598.2	52115.8	53117.6	53405.2	53999.5	54522.0	55169.0
15°	47912.2	47840.3	48142.3	48664.8	49225.6	50021.2	50486.2	51133.2	51531.1	52202.1
17.5°	41082.0	41326.5	42572.7	43881.2	45031.6	45961.4	46517.4	47054.3	47341.9	48070.4
20°	35478.8	35172.1	35339.8	36078.0	39351.7	40775.2	41360.0	41489.4	41609.3	42184.4
22.5°	29214.2	29113.5	29674.3	30503.5	31280.0	34563.3	35359.0	35057.0	35306.3	35847.9
25°	21693.8	22201.8	22700.3	24291.6	25298.2	26908.7	28418.5	28552.7	28643.8	28984.1
27.5°	17657.9	17480.6	17471.0	17916.8	19402.6	20744.7	22029.3	22326.4	22273.7	22599.7
30°	13880.9	13823.4	13622.1	13727.6	13579.0	14772.5	15376.4	16598.6	16531.5	16541.1
32.5°	10012.9	9797.2	9715.7	9873.9	9720.5	9610.2	10137.5	11517.9	11494.0	11589.8
35°	6058.5	6029.8	6096.9	6235.9	5929.1	5919.5	6029.8	7328.7	7486.9	7640.3
37.5°	3345.6	3316.9	3369.6	3882.4	3781.8	3690.7	3719.5	4404.9	4860.2	4975.3
40°	2204.8	2200.1	2238.4	2329.5	2502.0	2468.5	2482.8	2789.6	3221.0	3321.6
42.5°	1476.3	1481.1	1505.0	1610.5	1634.5	1807.0	1778.3	1850.2	2252.8	2339.1
45°	1179.1	1174.3	1188.7	1140.8	1169.5	1346.9	1366.0	1370.8	1715.9	1768.7
47.5°	929.9	929.9	944.2	881.9	867.6	977.8	1078.5	1092.8	1370.8	1442.7
50°	651.9	651.9	723.8	695.0	728.6	762.1	872.4	886.7	1121.6	1198.3
52.5°	479.3	488.9	498.5	503.3	613.5	608.7	704.6	771.7	848.4	982.6
55°	364.3	373.9	349.9	373.9	455.3	508.1	527.2	623.1	675.8	824.4
57.5°	239.7	263.6	244.5	287.6	306.8	393.0	421.8	512.9	546.4	675.8
60°	33.6	38.3	62.3	201.3	215.7	258.8	325.9	407.4	441.0	551.2
62.5°	4.8	4.8	14.4	33.6	143.8	172.6	244.5	282.8	325.9	412.2
65°	0.0	0.0	4.8	9.6	28.8	100.7	124.6	153.4	225.3	297.2
67.5°	0.0	0.0	4.8	9.6	14.4	33.6	52.7	100.7	129.4	206.1
70°	0.0	0.0	4.8	9.6	14.4	19.2	28.8	38.3	76.7	119.8
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	28.8	33.6	76.7
75°	0.0	0.0	4.8	9.6	14.4	24.0	28.8	28.8	28.8	33.6
77.5°	0.0	0.0	4.8	9.6	19.2	28.8	33.6	28.8	24.0	24.0
80°	0.0	0.0	4.8	14.4	24.0	33.6	38.3	28.8	19.2	14.4
82.5°	0.0	0.0	4.8	14.4	24.0	33.6	38.3	33.6	19.2	14.4
85°	0.0	0.0	4.8	14.4	19.2	24.0	38.3	33.6	19.2	9.6
87.5°	0.0	0.0	0.0	4.8	4.8	9.6	19.2	14.4	9.6	4.8
90°	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°
57905.9	0°	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9	57905.9
58054.5	2.5°	58485.9	58701.6	59080.3	59185.7	59511.6	59137.8	58931.7	58950.8	58505.1
57910.7	5°	58485.9	58979.6	59641.0	59957.4	60197.1	60177.9	60125.2	59990.9	59665.0
57623.1	7.5°	58332.5	59137.8	60048.5	60470.3	60757.9	60733.9	60853.7	60638.0	60240.2
57110.3	10°	57838.8	58538.6	59660.2	60005.3	60470.3	60479.8	60331.3	60374.4	59665.0
55236.2	12.5°	56285.9	56832.3	57814.9	58207.9	58773.5	58864.6	58701.6	58639.3	57968.2
52163.7	15°	53280.6	53596.9	54584.3	54977.3	55538.1	55461.4	55624.4	55557.3	54967.7
48012.9	17.5°	48885.2	48985.9	50021.2	50351.9	50879.2	51085.3	50840.8	51152.4	50644.3
42285.1	20°	42582.3	43123.9	44288.6	44796.7	45103.5	45472.5	45151.4	45501.3	44906.9
35335.0	22.5°	36188.2	36509.4	37563.8	38297.2	38867.6	38939.5	38819.6	39064.1	38263.6
29209.4	25°	29204.6	29736.6	30570.7	31529.3	32090.1	32435.2	32123.6	32281.8	32152.4
22652.4	27.5°	23035.8	23510.4	24138.3	24852.4	25696.0	26146.6	25897.3	26165.8	25533.1
16891.0	30°	16905.4	17145.1	17854.4	18611.8	19536.8	20083.3	20107.2	20380.4	20006.6
11834.3	32.5°	11920.5	12131.4	12567.6	13070.9	13952.8	14561.6	14465.7	14504.0	14274.0
7712.2	35°	7750.5	8033.3	8344.9	8584.5	9116.6	9787.6	9734.9	9686.9	9528.8
5071.1	37.5°	5181.4	5291.6	5464.2	5679.9	6025.0	6446.8	6585.8	6413.2	6346.1
3422.3	40°	3503.8	3695.5	3810.5	3973.5	4136.5	4491.2	4587.0	4553.5	4486.4
2396.6	42.5°	2487.6	2636.2	2780.0	2938.2	3024.5	3245.0	3431.9	3379.2	3350.4
1821.4	45°	1888.5	2022.7	2190.5	2310.3	2396.6	2526.0	2703.3	2722.5	2679.4
1461.9	47.5°	1514.6	1634.5	1768.7	1917.3	2017.9	2099.4	2252.8	2310.3	2281.5
1231.8	50°	1284.6	1375.6	1505.0	1653.6	1763.9	1835.8	1970.0	2032.3	2013.1
1030.5	52.5°	1092.8	1203.1	1322.9	1447.5	1581.7	1653.6	1778.3	1869.3	1854.9
853.2	55°	905.9	1049.7	1174.3	1298.9	1452.3	1524.2	1634.5	1754.3	1730.3
723.8	57.5°	790.9	910.7	1040.1	1159.9	1322.9	1418.8	1519.4	1644.0	1639.3
594.3	60°	661.5	781.3	925.1	1025.7	1198.3	1332.5	1423.6	1553.0	1562.6
450.6	62.5°	527.2	675.8	786.1	925.1	1083.2	1241.4	1327.7	1457.1	1505.0
345.1	65°	393.0	556.0	680.6	819.6	968.2	1145.6	1222.3	1351.7	1399.6
249.2	67.5°	292.4	417.0	575.2	695.0	862.8	1016.1	1107.2	1227.0	1260.6
148.6	70°	220.5	321.1	479.3	584.8	757.3	881.9	973.0	1064.1	1107.2
100.7	72.5°	129.4	239.7	378.7	503.3	651.9	757.3	824.4	896.3	925.1
47.9	75°	91.1	182.1	297.2	417.0	527.2	613.5	675.8	738.1	766.9
24.0	77.5°	47.9	134.2	234.9	335.5	412.2	484.1	546.4	594.3	613.5
19.2	80°	28.8	95.9	191.7	263.6	316.3	378.7	441.0	474.5	469.7
14.4	82.5°	19.2	76.7	139.0	191.7	230.1	278.0	321.1	345.1	345.1
9.6	85°	14.4	52.7	95.9	148.6	153.4	191.7	201.3	225.3	230.1
9.6	87.5°	9.6	33.6	52.7	86.3	81.5	100.7	105.4	119.8	129.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
57905.9
58145.6
59770.5
60331.3
59458.9
57814.9
55154.7
50519.7
44859.0
38153.4
32070.9
25696.0
20073.7
14403.4
9389.8
6331.7
4496.0
3326.4
2674.6
2267.2
2008.3
1845.4
1730.3
1634.5
1562.6
1500.3
1394.8
1260.6
1097.6
915.5
757.3
608.7
464.9
340.3
225.3
124.6
0.0

(END OF REPORT)