

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: P637605

Luminaire Tested: **IFLD-L-SA8C-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637605
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43336.2 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 420.3
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



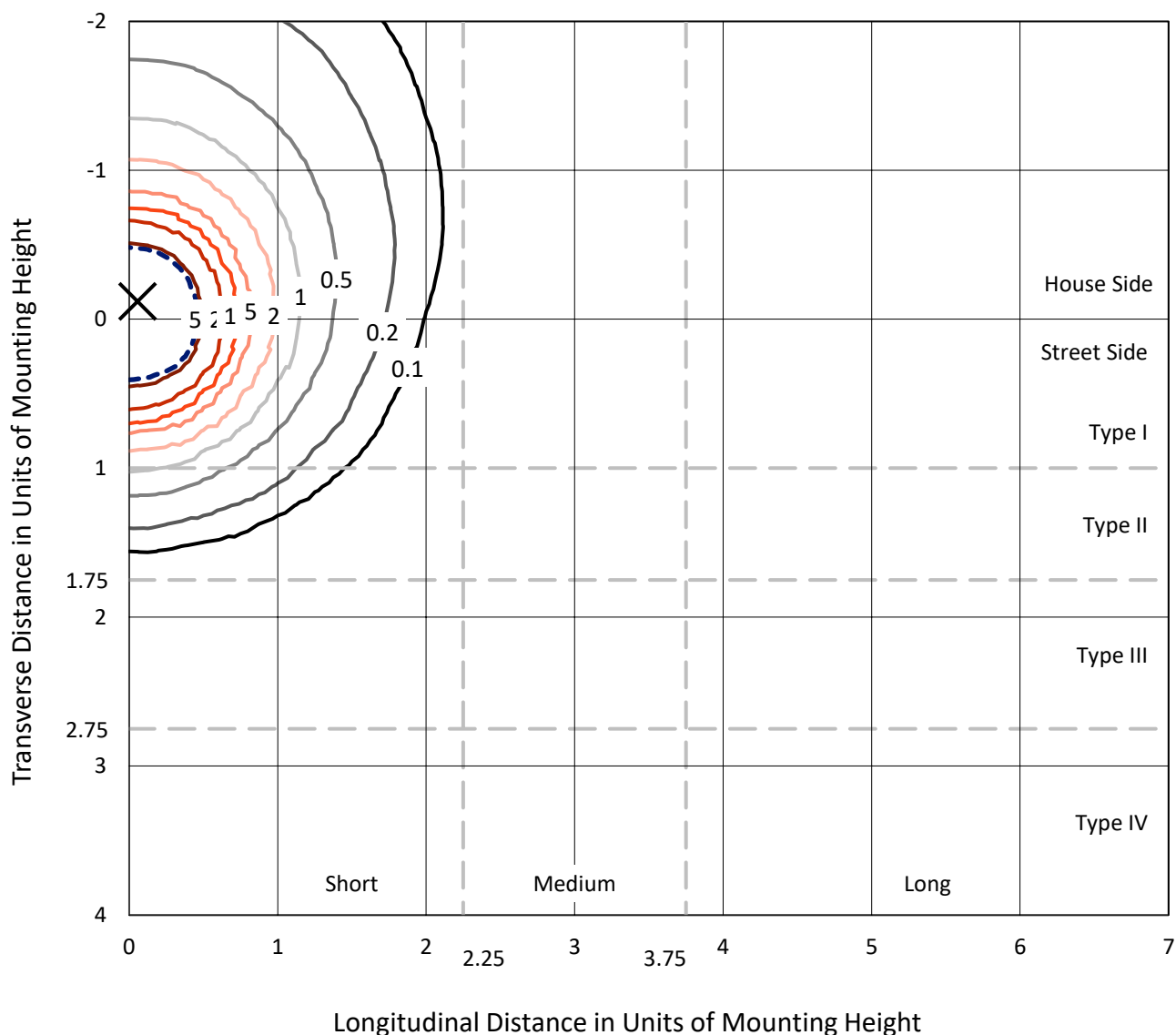
REPORT NUMBER: P637605

CATALOG NUMBER: IFLD-L-SA8C-730-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

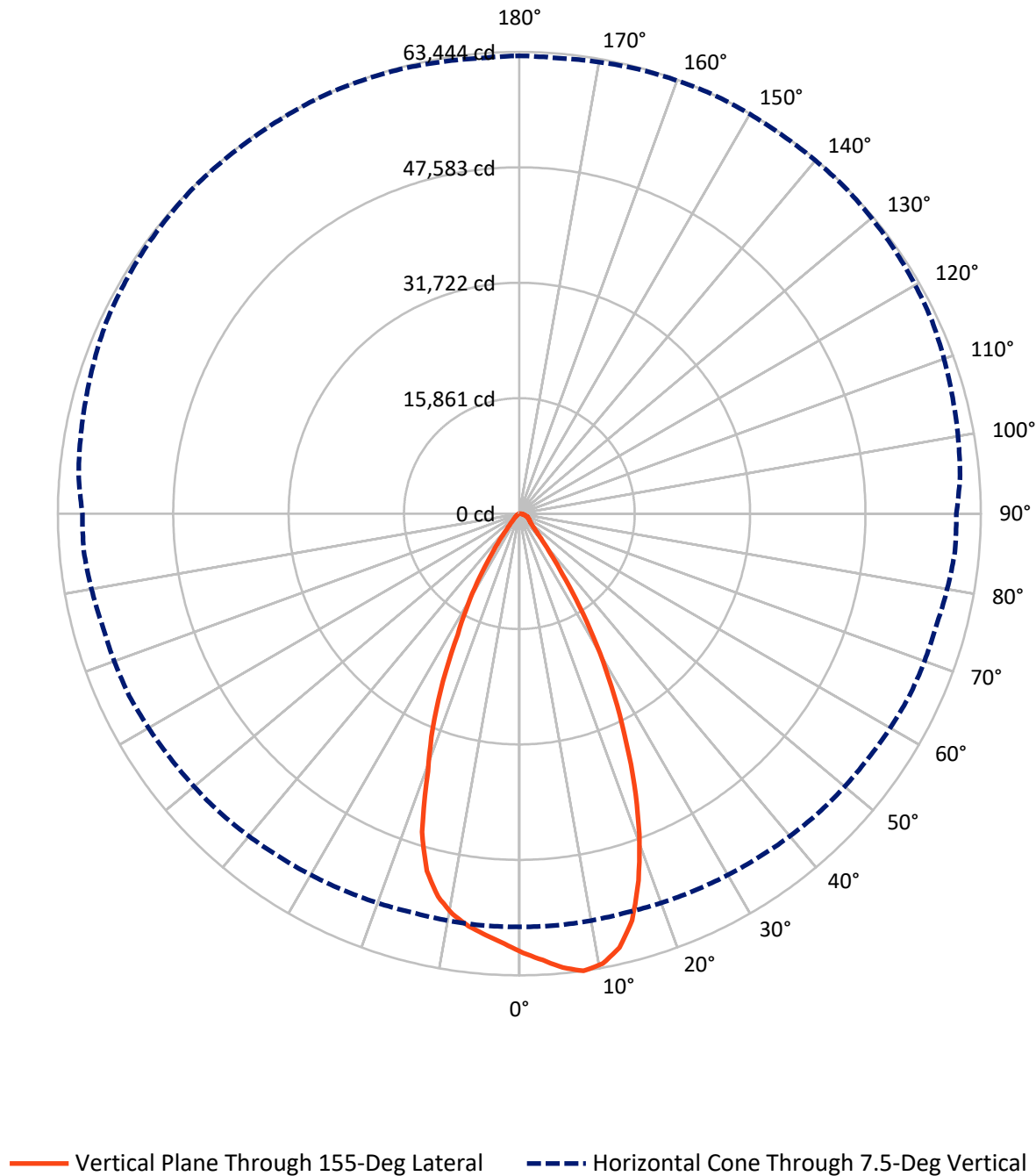


Based on 20 foot mounting height. Maximum calculated value = 153.4 fc

Type I - Short - N/A

REPORT NUMBER: P637605
CATALOG NUMBER: IFLD-L-SA8C-730-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637605

CATALOG NUMBER: IFLD-L-SA8C-730-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23923.2	0.0	23923.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	19413.0	0.0	19413.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	43336.2	0.0	43336.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5756.7	13.3
10°-20°	14927.2	34.4
20°-30°	13677.5	31.6
30°-40°	5525.7	12.8
40°-50°	1621.0	3.7
50°-60°	906.3	2.1
60°-70°	550.5	1.3
70°-80°	279.7	0.6
80°-90°	91.5	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°	43336.2	100.0
0°-180°	43336.2	100.0

Coefficient of Utilization



REPORT NUMBER: P637605

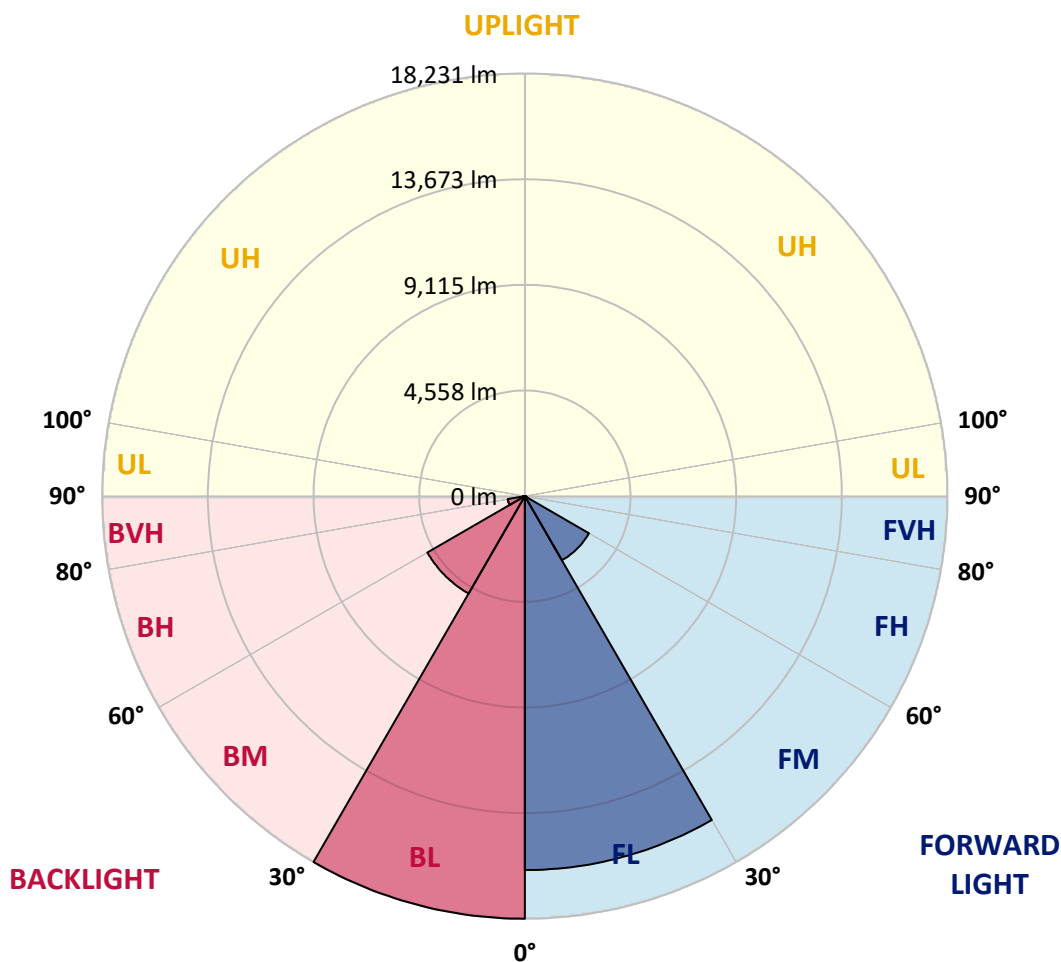
CATALOG NUMBER: IFLD-L-SA8C-730-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	16130.8	37.2			
FM	(30°-60°)	3196.8	7.4			
FH	(60°-80°)	77.4	0.2			G0/660
FVH	(80°-90°)	7.9	0.0			G0/10
BL	(0°-30°)	18230.7	42.1	B5		
BM	(30°-60°)	4856.2	11.2	B3/5000		
BH	(60°-80°)	752.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	83.5	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



REPORT NUMBER: P637605

CATALOG NUMBER: IFLD-L-SA8C-730-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6
2.5°	59061.4	59261.3	58861.5	59126.3	59331.2	59820.9	59860.9	60030.8	60090.8	60535.5
5°	57942.0	58096.9	57772.1	58126.9	58416.7	58851.5	59186.3	59656.0	59915.9	60440.6
7.5°	56777.7	56812.7	56747.7	57122.5	57557.2	58156.9	58571.7	59186.3	59346.2	60095.8
10°	55368.5	55113.6	55238.6	55788.2	56437.9	57357.3	57642.2	58256.8	58541.7	59306.2
12.5°	53119.8	53249.7	53094.8	53794.4	54334.1	55378.5	55678.3	56297.9	56842.6	57517.3
15°	49951.6	49876.6	50191.4	50736.1	51320.8	52150.3	52635.0	53309.6	53724.4	54424.0
17.5°	42830.6	43085.5	44384.7	45749.0	46948.3	47917.7	48497.4	49057.1	49356.9	50116.5
20°	36988.9	36669.1	36844.0	37613.6	41026.6	42510.8	43120.4	43255.4	43380.3	43980.0
22.5°	30457.7	30352.7	30937.4	31801.9	32611.4	36034.5	36864.0	36549.2	36809.0	37373.7
25°	22617.1	23146.8	23666.5	25325.6	26375.0	28054.0	29628.1	29768.1	29863.0	30217.8
27.5°	18409.5	18224.6	18214.6	18679.4	20228.5	21627.7	22966.9	23276.7	23221.8	23561.6
30°	14471.8	14411.8	14201.9	14311.9	14156.9	15401.2	16030.9	17305.1	17235.2	17245.2
32.5°	10439.1	10214.2	10129.2	10294.1	10134.2	10019.3	10569.0	12008.2	11983.2	12083.1
35°	6316.4	6286.4	6356.4	6501.3	6181.5	6171.5	6286.4	7640.6	7805.6	7965.5
37.5°	3488.0	3458.0	3513.0	4047.7	3942.8	3847.8	3877.8	4592.4	5067.1	5187.0
40°	2298.7	2293.7	2333.7	2428.6	2608.5	2573.5	2588.5	2908.3	3358.1	3463.0
42.5°	1539.1	1544.1	1569.1	1679.0	1704.0	1883.9	1853.9	1928.9	2348.7	2438.6
45°	1229.3	1224.3	1239.3	1189.3	1219.3	1404.2	1424.2	1429.2	1789.0	1844.0
47.5°	969.4	969.4	984.4	919.5	904.5	1019.4	1124.4	1139.4	1429.2	1504.1
50°	679.6	679.6	754.6	724.6	759.6	794.5	909.5	924.5	1169.3	1249.3
52.5°	499.7	509.7	519.7	524.7	639.6	634.6	734.6	804.5	884.5	1024.4
55°	379.8	389.8	364.8	389.8	474.7	529.7	549.7	649.6	704.6	859.5
57.5°	249.9	274.8	254.9	299.8	319.8	409.8	439.7	534.7	569.7	704.6
60°	35.0	40.0	65.0	209.9	224.9	269.8	339.8	424.8	459.7	574.7
62.5°	5.0	5.0	15.0	35.0	149.9	179.9	254.9	294.8	339.8	429.8
65°	0.0	0.0	5.0	10.0	30.0	104.9	129.9	159.9	234.9	309.8
67.5°	0.0	0.0	5.0	10.0	15.0	35.0	55.0	104.9	134.9	214.9
70°	0.0	0.0	5.0	10.0	15.0	20.0	30.0	40.0	80.0	124.9
72.5°	0.0	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	80.0
75°	0.0	0.0	5.0	10.0	15.0	25.0	30.0	30.0	30.0	35.0
77.5°	0.0	0.0	5.0	10.0	20.0	30.0	35.0	30.0	25.0	25.0
80°	0.0	0.0	5.0	15.0	25.0	35.0	40.0	30.0	20.0	15.0
82.5°	0.0	0.0	5.0	15.0	25.0	35.0	40.0	35.0	20.0	15.0
85°	0.0	0.0	5.0	15.0	20.0	25.0	40.0	35.0	20.0	10.0
87.5°	0.0	0.0	0.0	5.0	5.0	10.0	20.0	15.0	10.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637605

CATALOG NUMBER: IFLD-L-SA8C-730-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
60370.6	0°	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6	60370.6
60525.5	2.5°	60975.3	61200.2	61594.9	61704.9	62044.7	61654.9	61440.0	61460.0	60995.3
60375.6	5°	60975.3	61490.0	62179.6	62509.4	62759.3	62739.3	62684.3	62544.4	62204.6
60075.8	7.5°	60815.4	61654.9	62604.4	63044.1	63343.9	63318.9	63443.9	63219.0	62804.2
59541.1	10°	60300.7	61030.3	62199.6	62559.4	63044.1	63054.1	62899.2	62944.2	62204.6
57587.2	12.5°	58681.6	59251.3	60275.7	60685.4	61275.1	61370.1	61200.2	61135.2	60435.6
54384.0	15°	55548.4	55878.2	56907.6	57317.4	57902.0	57822.1	57992.0	57922.0	57307.4
50056.5	17.5°	50966.0	51070.9	52150.3	52495.1	53044.8	53259.7	53004.8	53329.6	52799.9
44084.9	20°	44394.7	44959.4	46173.7	46703.4	47023.2	47408.0	47073.2	47438.0	46818.3
36839.0	22.5°	37728.5	38063.3	39162.7	39927.3	40521.9	40596.9	40472.0	40726.8	39892.3
30452.7	25°	30447.7	31002.3	31871.9	32871.3	33456.0	33815.7	33490.9	33655.8	33520.9
23616.6	27.5°	24016.3	24511.0	25165.7	25910.2	26789.7	27259.5	26999.6	27279.5	26619.8
17610.0	30°	17625.0	17874.8	18614.4	19404.0	20368.4	20938.1	20963.1	21247.9	20858.1
12338.0	32.5°	12427.9	12647.8	13102.5	13627.2	14546.7	15181.4	15081.4	15121.4	14881.5
8040.4	35°	8080.4	8375.2	8700.0	8949.9	9504.6	10204.2	10149.2	10099.3	9934.3
5287.0	37.5°	5401.9	5516.9	5696.8	5921.6	6281.4	6721.2	6866.1	6686.2	6616.2
3568.0	40°	3652.9	3852.8	3972.7	4142.6	4312.5	4682.3	4782.3	4747.3	4677.3
2498.6	42.5°	2593.5	2748.4	2898.3	3063.3	3153.2	3383.1	3578.0	3523.0	3493.0
1898.9	45°	1968.9	2108.8	2283.7	2408.6	2498.6	2633.5	2818.4	2838.4	2793.4
1524.1	47.5°	1579.1	1704.0	1844.0	1998.9	2103.8	2188.8	2348.7	2408.6	2378.6
1284.3	50°	1339.2	1434.2	1569.1	1724.0	1839.0	1913.9	2053.8	2118.8	2098.8
1074.4	52.5°	1139.4	1254.3	1379.2	1509.1	1649.1	1724.0	1853.9	1948.9	1933.9
889.5	55°	944.5	1094.4	1224.3	1354.2	1514.1	1589.1	1704.0	1829.0	1804.0
754.6	57.5°	824.5	949.5	1084.4	1209.3	1379.2	1479.2	1584.1	1714.0	1709.0
619.6	60°	689.6	814.5	964.5	1069.4	1249.3	1389.2	1484.2	1619.1	1629.1
469.7	62.5°	549.7	704.6	819.5	964.5	1129.4	1294.3	1384.2	1519.1	1569.1
359.8	65°	409.8	579.7	709.6	854.5	1009.4	1194.3	1274.3	1409.2	1459.2
259.9	67.5°	304.8	434.8	599.7	724.6	899.5	1059.4	1154.3	1279.3	1314.3
154.9	70°	229.9	334.8	499.7	609.7	789.6	919.5	1014.4	1109.4	1154.3
104.9	72.5°	134.9	249.9	394.8	524.7	679.6	789.6	859.5	934.5	964.5
50.0	75°	94.9	189.9	309.8	434.8	549.7	639.6	704.6	769.6	799.5
25.0	77.5°	50.0	139.9	244.9	349.8	429.8	504.7	569.7	619.6	639.6
20.0	80°	30.0	99.9	199.9	274.8	329.8	394.8	459.7	494.7	489.7
15.0	82.5°	20.0	80.0	144.9	199.9	239.9	289.8	334.8	359.8	359.8
10.0	85°	15.0	55.0	99.9	154.9	159.9	199.9	209.9	234.9	239.9
10.0	87.5°	10.0	35.0	55.0	89.9	85.0	104.9	109.9	124.9	134.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
60370.6
60620.5
62314.5
62899.2
61989.7
60275.7
57502.3
52670.0
46768.4
39777.4
33436.0
26789.7
20928.1
15016.5
9789.4
6601.2
4687.3
3468.0
2788.4
2363.7
2093.8
1923.9
1804.0
1704.0
1629.1
1564.1
1454.2
1314.3
1144.3
954.5
789.6
634.6
484.7
354.8
234.9
129.9
0.0

(END OF REPORT)