

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: P636529

Luminaire Tested: **IFLD-L-SA7E-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636529
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33754.6 lumens
Efficiency: N/A
Efficacy: 63.4 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): 532.7
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



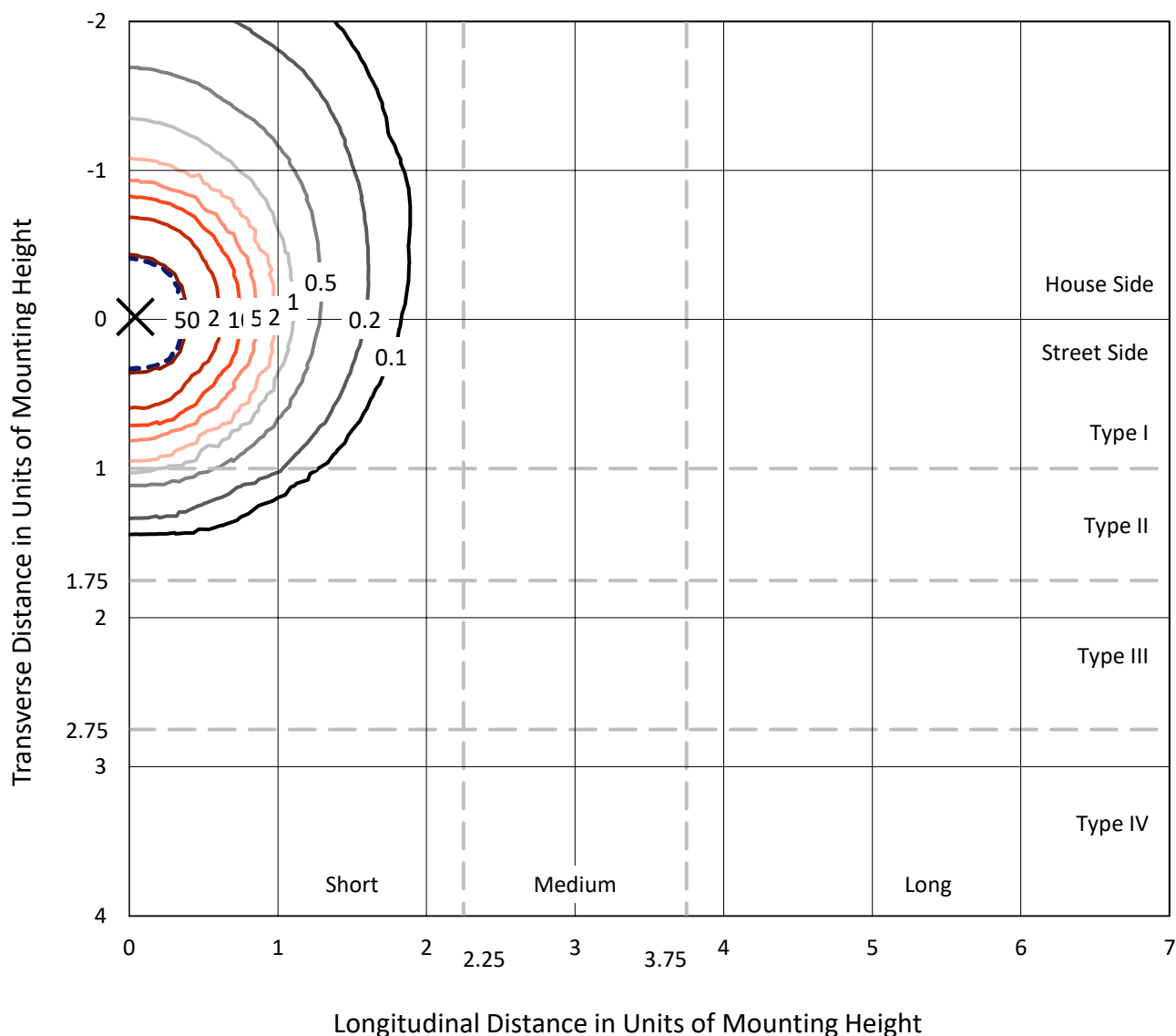
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

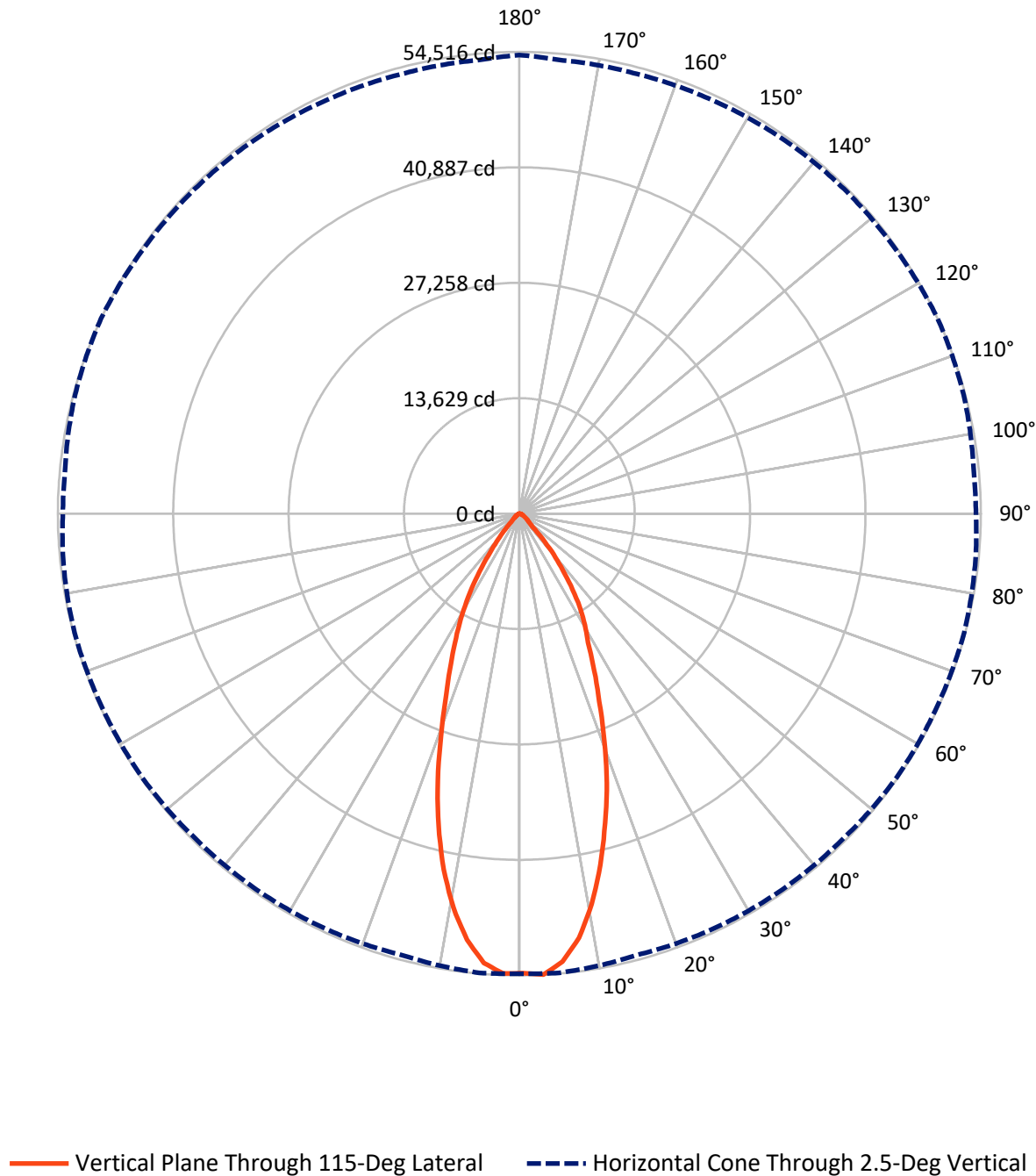


Based on 20 foot mounting height. Maximum calculated value = 135.7 fc

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	18628.6	0.0	18628.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15126.0	0.0	15126.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	33754.6	0.0	33754.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4866.8	14.4
10°-20°	10285.8	30.5
20°-30°	9283.5	27.5
30°-40°	6143.5	18.2
40°-50°	1840.3	5.5
50°-60°	738.2	2.2
60°-70°	382.3	1.1
70°-80°	165.9	0.5
80°-90°	48.3	0.1
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°	33754.6	100.0
0°-180°	33754.6	100.0

Coefficient of Utilization



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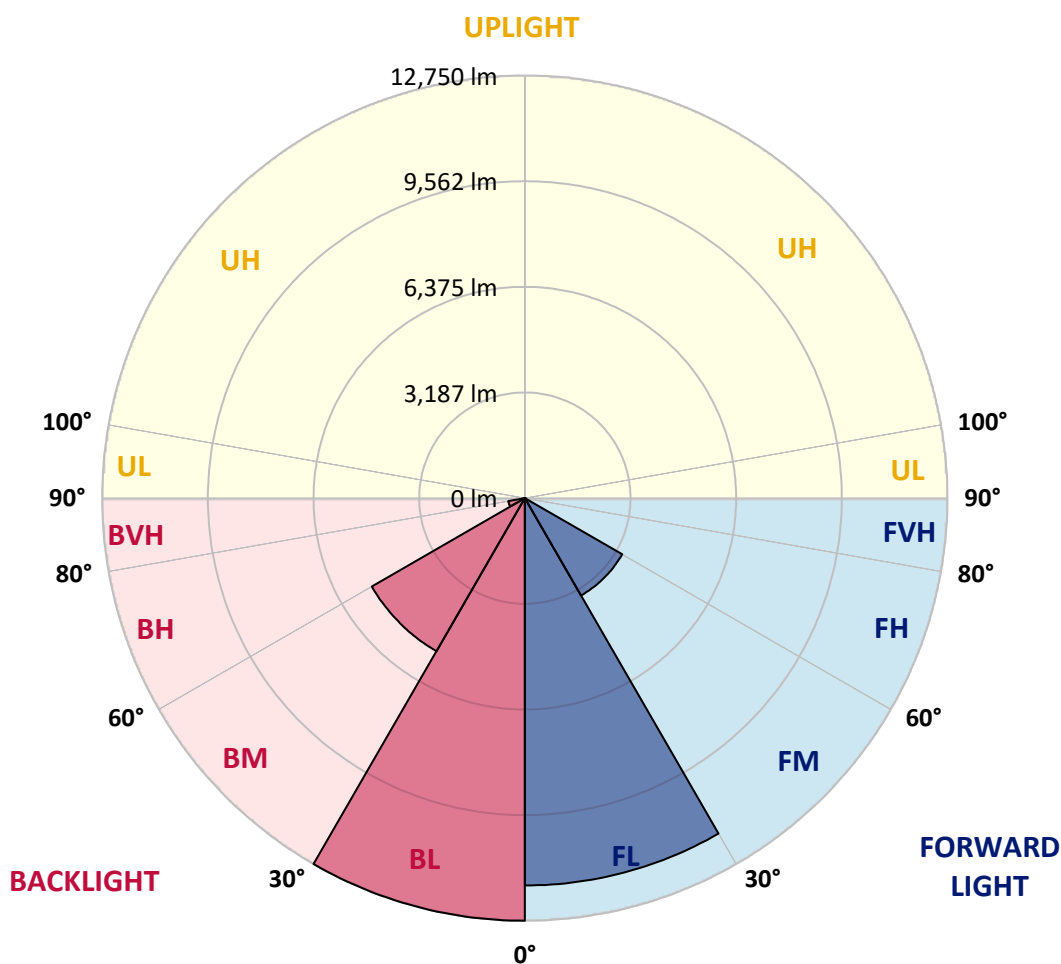
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11686.1	34.6			
FM	(30°-60°)	3390.9	10.0			
FH	(60°-80°)	42.0	0.1			G0/660
FVH	(80°-90°)	6.9	0.0			G0/10
BL	(0°-30°)	12750.0	37.8	B5		
BM	(30°-60°)	5331.1	15.8	B4/8500		
BH	(60°-80°)	506.2	1.5	B2/1000		G2/1000
BVH	(80°-90°)	41.3	0.1			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°	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5
2.5°	54329.5	54426.2	53942.9	54108.6	54177.6	54198.4	54370.9	54343.3	54391.7	54136.2
5°	53611.6	53425.2	53066.2	53073.1	53052.4	52859.1	53252.6	53225.0	53142.1	52838.4
7.5°	51167.8	51437.0	50760.5	50746.7	50732.9	50498.2	51015.9	50698.4	50767.4	50332.5
10°	47591.8	47626.4	47025.8	46970.5	47018.9	46715.1	47315.7	47191.4	47322.6	46867.0
12.5°	43208.2	43401.5	42738.8	42642.1	42835.4	42407.4	42890.6	42952.8	42759.5	42697.3
15°	33888.6	34399.5	35655.9	37575.0	38072.1	37713.1	38099.7	38092.8	38175.6	37706.2
17.5°	25818.6	25866.9	25570.1	26488.2	31803.8	33529.7	33612.5	32956.7	32459.6	32287.1
20°	22539.5	22705.2	22436.0	22511.9	23361.0	28421.2	28614.5	27627.3	26778.2	26709.1
22.5°	19930.0	20033.6	19840.3	19902.4	19943.8	20537.5	23899.5	23029.6	22622.3	22311.7
25°	17721.0	17721.0	17617.4	17638.1	17596.7	16720.0	18445.8	19439.9	19205.2	19094.7
27.5°	15705.2	15732.8	15601.6	15677.6	15173.6	13758.4	13551.3	16485.2	16236.7	16036.5
30°	13792.9	13882.7	13758.4	13799.8	12702.2	11542.4	10948.7	13751.5	14062.2	14006.9
32.5°	10382.7	10790.0	11791.0	11832.4	10341.2	9450.7	9188.4	11038.5	12219.0	12115.4
35°	6433.9	6413.2	6454.7	8442.8	7932.0	7324.5	7421.1	8339.3	9671.6	9623.3
37.5°	4908.3	4901.4	4977.3	4777.1	5198.2	5557.2	5633.2	5633.2	7062.1	7069.1
40°	3720.9	3693.3	3686.4	3368.8	2823.5	4169.6	4045.4	3941.8	4908.3	5011.8
42.5°	2374.8	2457.6	2395.5	2050.3	1843.2	2278.1	2540.4	2457.6	3030.6	3106.5
45°	1325.4	1325.4	1270.2	1076.9	1070.0	1152.9	1449.7	1353.1	1553.3	1656.8
47.5°	642.0	628.2	690.3	849.1	883.6	856.0	1035.5	1076.9	1173.6	1270.2
50°	517.8	517.8	490.1	441.8	731.8	704.1	766.3	821.5	876.7	959.6
52.5°	434.9	434.9	400.4	372.8	421.1	538.5	545.4	648.9	642.0	759.4
55°	220.9	227.8	324.5	324.5	283.0	441.8	448.7	524.7	538.5	635.1
57.5°	20.7	27.6	41.4	200.2	220.9	241.6	338.3	386.6	448.7	490.1
60°	6.9	6.9	13.8	27.6	131.2	165.7	214.0	255.4	310.7	407.3
62.5°	0.0	0.0	6.9	13.8	27.6	103.6	117.4	131.2	186.4	255.4
65°	0.0	0.0	6.9	6.9	13.8	34.5	48.3	82.8	117.4	158.8
67.5°	0.0	0.0	6.9	6.9	13.8	20.7	27.6	41.4	55.2	103.6
70°	0.0	0.0	6.9	6.9	13.8	20.7	20.7	27.6	34.5	48.3
72.5°	0.0	0.0	6.9	6.9	13.8	27.6	20.7	20.7	27.6	34.5
75°	0.0	0.0	6.9	6.9	13.8	20.7	20.7	20.7	20.7	20.7
77.5°	0.0	0.0	6.9	6.9	13.8	20.7	20.7	20.7	13.8	13.8
80°	0.0	0.0	6.9	6.9	13.8	20.7	27.6	27.6	13.8	13.8
82.5°	0.0	0.0	6.9	13.8	13.8	34.5	41.4	34.5	13.8	6.9
85°	0.0	0.0	6.9	6.9	20.7	34.5	34.5	20.7	13.8	6.9
87.5°	0.0	0.0	0.0	6.9	6.9	13.8	20.7	20.7	6.9	6.9
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°
54260.5	0°	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5	54260.5
53929.1	2.5°	53901.5	54322.6	54515.9	54315.7	54219.1	54081.0	53880.8	53742.7	53770.3
52672.7	5°	52555.4	52997.2	53149.0	52976.5	52831.5	52755.6	52721.0	52790.1	52969.6
50146.1	7.5°	50132.3	50415.3	50581.0	50498.2	50298.0	50525.8	50587.9	50546.5	50808.8
46728.9	10°	46742.7	47053.4	46901.5	46936.0	46701.3	46818.7	46784.1	46936.0	47198.3
42649.0	12.5°	42372.9	42669.7	42552.4	42531.7	42283.1	42504.0	42366.0	42531.7	42876.8
37512.9	15°	37782.1	37968.5	37892.6	37775.2	37554.3	37630.3	38058.3	38030.7	38182.5
32183.5	17.5°	32045.4	32942.9	33433.0	33536.6	33357.1	33509.0	33812.7	33736.8	34081.9
26564.2	20°	26515.8	27420.2	28628.3	29608.6	29629.3	29650.0	29843.3	29891.6	30188.4
22318.6	22.5°	22221.9	22864.0	24161.8	25459.6	26357.1	26543.5	26522.7	26591.8	26674.6
18942.8	25°	18894.5	19364.0	20551.3	21448.8	23022.7	23547.4	23699.3	23547.4	23595.7
15967.5	27.5°	16147.0	16864.9	17258.4	18218.0	19757.4	20972.4	20924.1	20834.4	20848.2
13896.5	30°	13889.6	14662.8	15242.6	15532.6	16692.3	18445.8	18625.3	18369.9	18376.8
12067.1	32.5°	11991.2	12232.8	13088.8	13323.5	14069.1	15663.7	16278.1	16084.9	16050.3
9650.9	35°	9933.9	10065.1	10458.6	10921.1	11362.9	12571.0	13585.8	13406.3	13496.1
7096.7	37.5°	7069.1	7607.5	7987.2	8366.9	8684.4	9443.8	10665.7	10500.0	10589.8
5025.7	40°	4984.2	5225.9	5881.7	6047.4	6516.8	6868.9	7904.4	7849.1	7959.6
3120.3	42.5°	3065.1	3237.7	3569.0	3727.8	4045.4	4245.6	4853.1	4922.1	5067.1
1725.8	45°	1739.6	1815.6	2043.4	2216.0	2450.7	2533.5	2747.5	2844.2	2927.0
1339.3	47.5°	1325.4	1408.3	1560.2	1712.0	1905.3	1974.4	2126.2	2271.2	2347.1
1035.5	50°	1083.8	1159.8	1318.5	1442.8	1636.1	1698.2	1822.5	1981.3	2077.9
787.0	52.5°	821.5	932.0	1125.2	1256.4	1456.6	1532.5	1649.9	1808.7	1898.4
648.9	55°	676.5	759.4	932.0	1111.4	1297.8	1401.4	1477.3	1670.6	1767.3
531.6	57.5°	579.9	642.0	752.5	966.5	1125.2	1277.1	1339.3	1518.7	1615.4
421.1	60°	441.8	538.5	635.1	800.8	980.3	1139.1	1208.1	1366.9	1442.8
303.7	62.5°	365.9	428.0	552.3	642.0	842.2	1007.9	1076.9	1221.9	1277.1
200.2	65°	255.4	345.2	462.5	517.8	704.1	862.9	959.6	1070.0	1125.2
117.4	67.5°	151.9	255.4	365.9	441.8	573.0	731.8	835.3	938.9	987.2
69.0	70°	96.6	200.2	289.9	372.8	448.7	600.6	724.9	814.6	793.9
41.4	72.5°	55.2	124.3	214.0	303.7	372.8	503.9	621.3	690.3	490.1
27.6	75°	34.5	89.7	179.5	248.5	303.7	400.4	510.8	524.7	303.7
13.8	77.5°	27.6	69.0	138.1	200.2	207.1	296.8	359.0	407.3	227.8
13.8	80°	13.8	55.2	117.4	165.7	131.2	207.1	276.1	317.6	179.5
6.9	82.5°	13.8	34.5	89.7	117.4	96.6	158.8	200.2	227.8	151.9
6.9	85°	6.9	27.6	48.3	69.0	69.0	103.6	89.7	110.5	96.6
6.9	87.5°	6.9	13.8	27.6	34.5	27.6	41.4	48.3	48.3	41.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
54260.5
54143.1
53342.3
51071.1
47301.9
42939.0
38217.1
34026.7
30126.3
26522.7
23519.8
20868.9
18383.7
16133.2
13578.9
10665.7
8001.0
5232.8
2920.1
2381.7
2119.3
1960.6
1794.9
1656.8
1456.6
1284.0
1125.2
980.3
731.8
434.9
283.0
227.8
186.4
165.7
96.6
34.5
0.0

(END OF REPORT)