

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: P638559

Luminaire Tested: **IFLD-L-SA7E-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638559
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33060.7 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

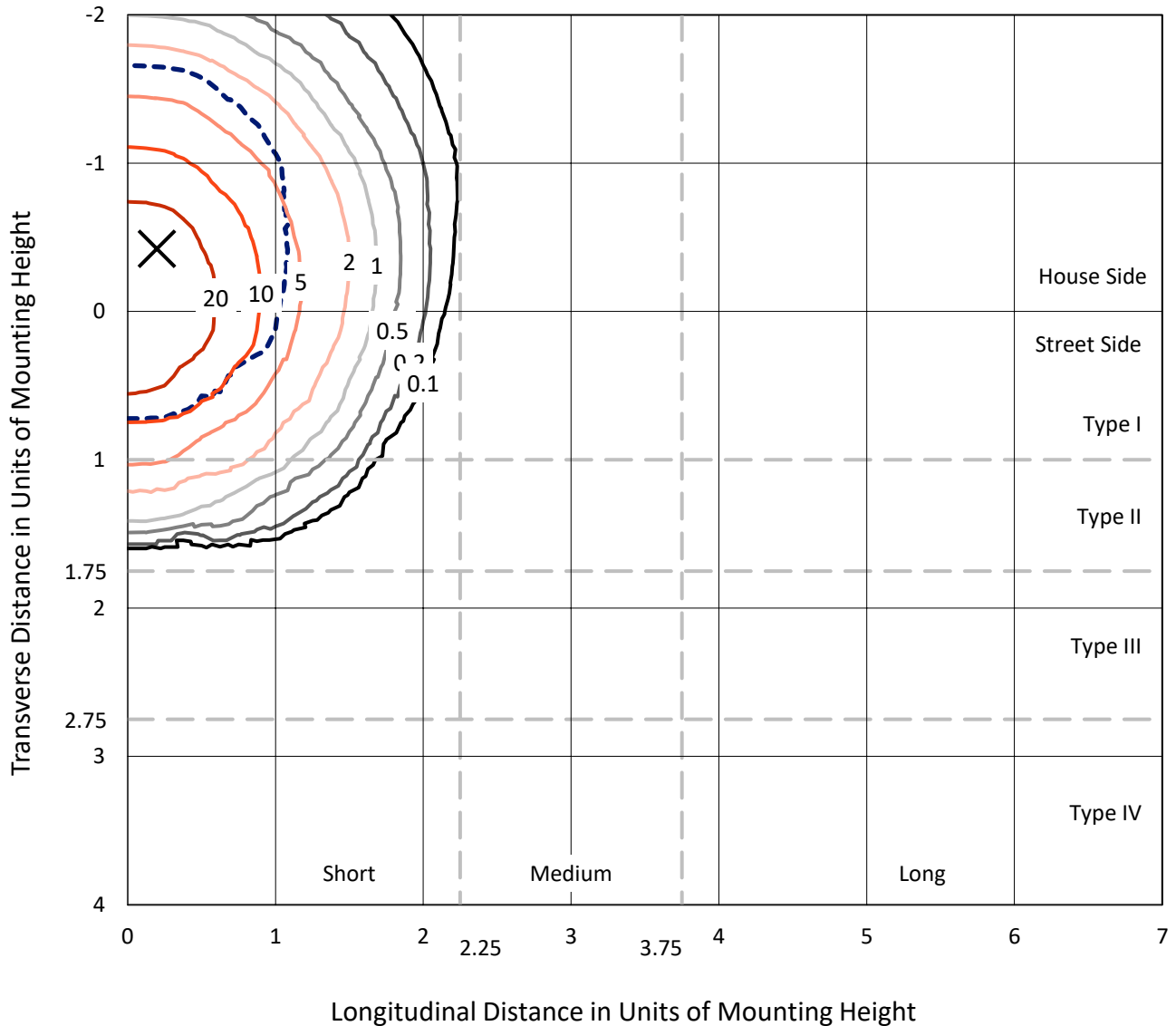
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

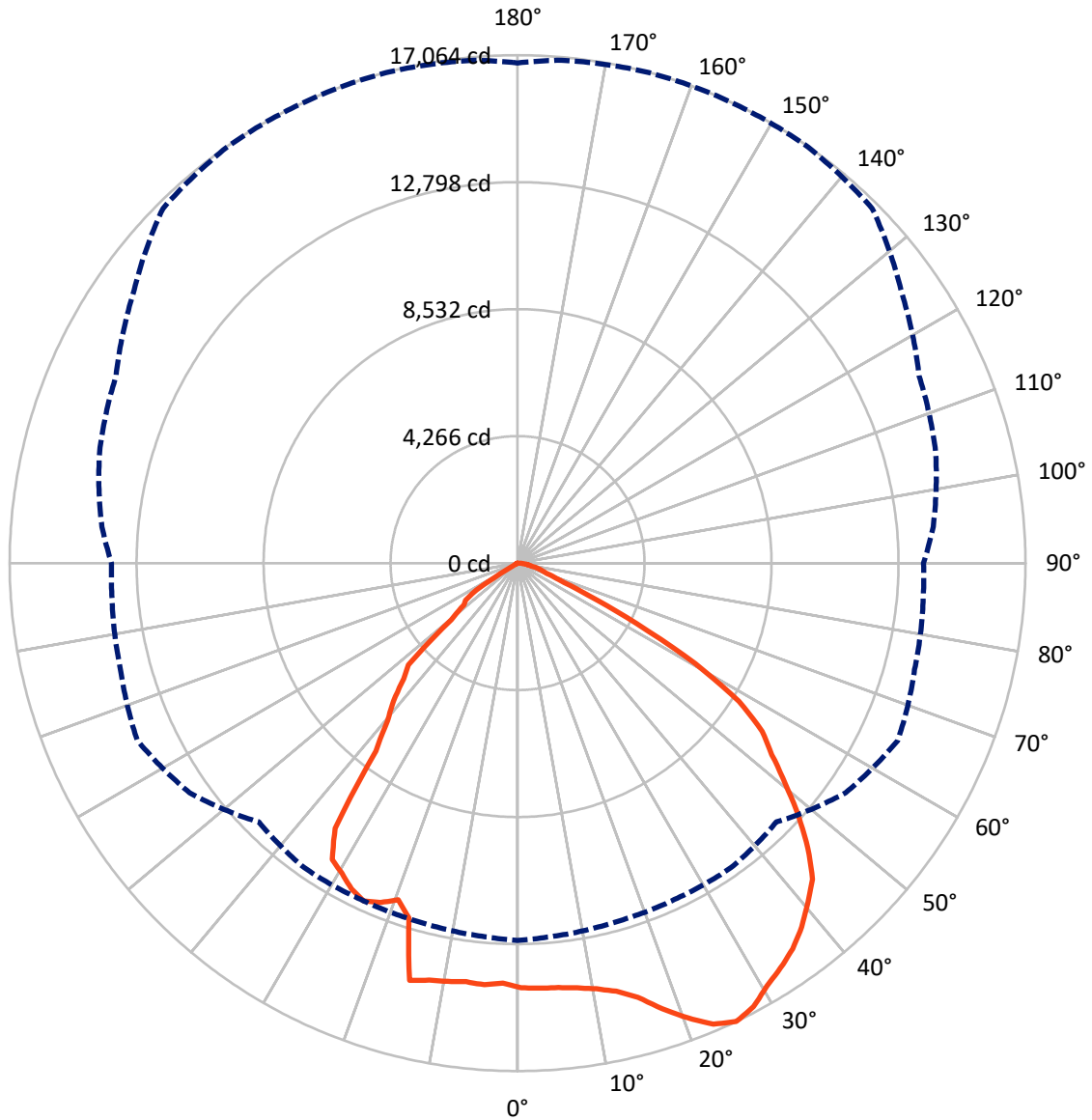
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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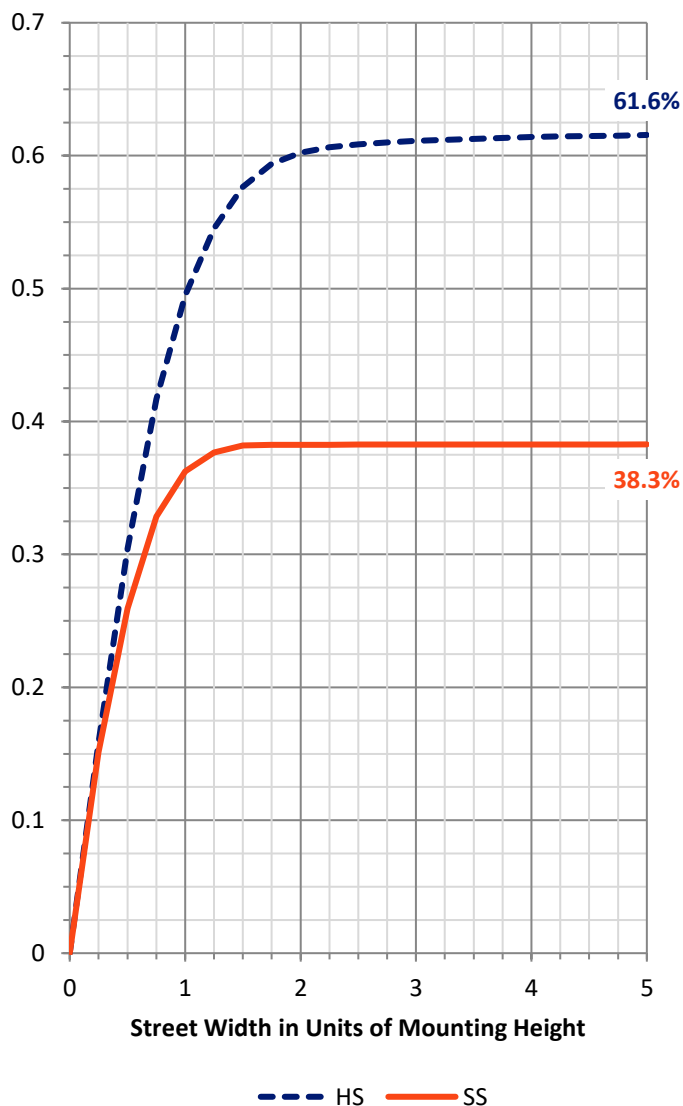
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20468.0	0.0	20468.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12592.8	0.0	12592.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	33060.7	0.0	33060.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1368.6	4.1
10°-20°	4178.8	12.6
20°-30°	6606.4	20.0
30°-40°	7462.6	22.6
40°-50°	6988.8	21.1
50°-60°	4818.3	14.6
60°-70°	1294.5	3.9
70°-80°	269.8	0.8
80°-90°	73.0	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°	33060.7	100.0
0°-180°	33060.7	100.0



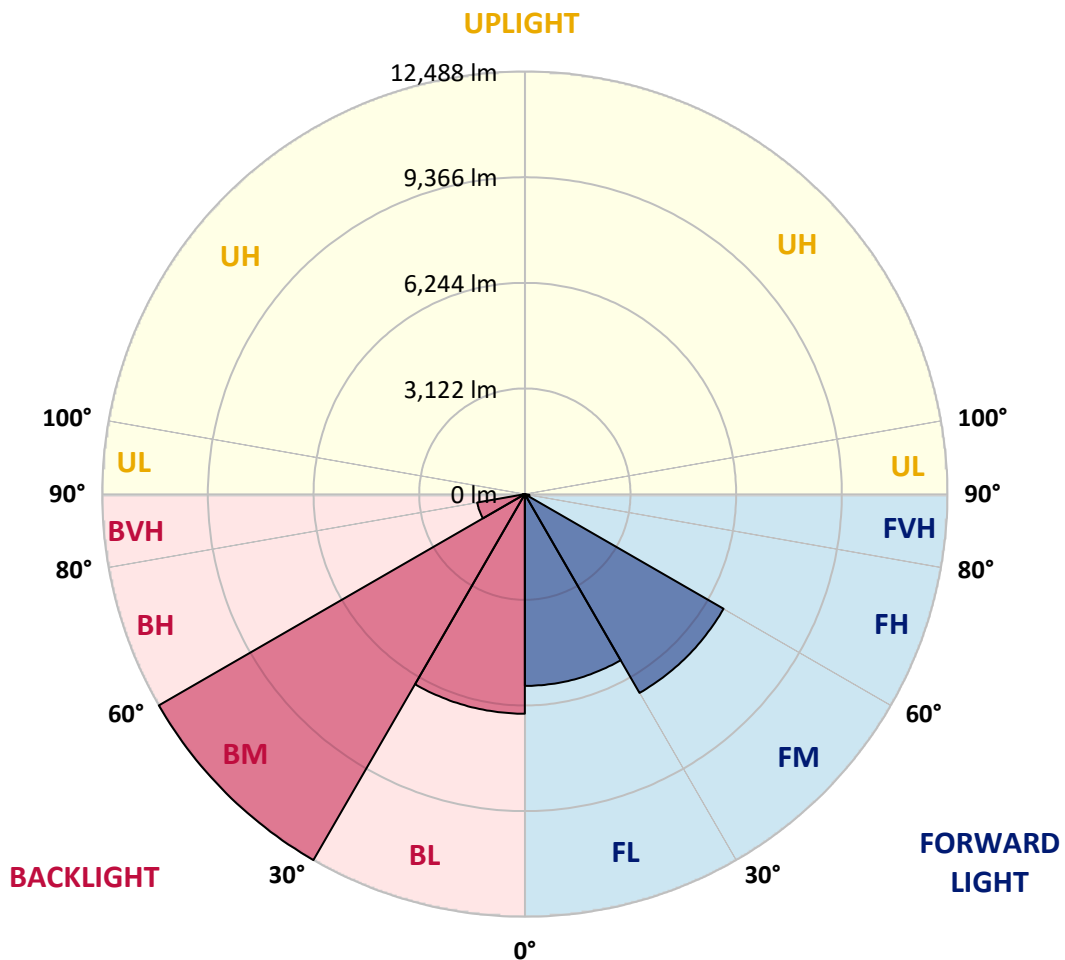
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5665.6	17.1			
FM (30°-60°)	6781.5	20.5			
FH (60°-80°)	135.9	0.4			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	6488.2	19.6	B5		
BM (30°-60°)	12488.2	37.8	B5		
BH (60°-80°)	1428.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	63.2	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1
2.5°	14328.3	14236.0	14148.5	14119.4	14240.8	14372.0	14289.4	14294.3	14265.1	14318.6
5°	14435.2	14308.9	14250.5	14206.8	14226.3	14362.3	14245.7	14289.4	14240.8	14304.0
7.5°	14396.3	14308.9	14250.5	14167.9	14231.1	14391.4	14279.7	14284.6	14260.3	14318.6
10°	14372.0	14308.9	14236.0	14245.7	14318.6	14454.6	14367.2	14415.7	14381.7	14415.7
12.5°	14430.3	14362.3	14323.4	14323.4	14386.6	14542.1	14498.3	14542.1	14527.5	14556.6
15°	13881.3	13944.4	14313.7	14478.9	14605.2	14760.7	14741.3	14785.0	14794.7	14838.4
17.5°	11709.4	11646.3	11617.1	12467.4	14726.7	15207.7	15193.1	15188.3	15139.7	15105.7
20°	11996.1	11971.8	11937.8	12001.0	12253.6	15440.9	15538.1	14940.5	14765.6	14751.0
22.5°	12452.8	12414.0	12287.6	12292.5	12370.2	13424.6	15057.1	14512.9	14454.6	14420.6
25°	12676.3	12598.6	12496.6	12467.4	12491.7	12297.4	13448.9	14095.1	13808.4	13677.2
27.5°	12282.8	12287.6	12205.0	12282.8	12190.5	11315.9	10825.2	13278.8	13269.1	13210.8
30°	11986.4	11971.8	11874.6	11971.8	11335.3	10358.7	10149.8	12384.8	12282.8	12205.0
32.5°	11077.8	11087.5	11369.3	11748.3	10703.7	9931.2	9299.5	11063.2	12030.1	11986.4
35°	7924.5	7944.0	8944.9	10815.5	9746.5	9080.9	9032.3	9561.9	11631.7	11651.1
37.5°	7628.1	7628.1	7603.9	7910.0	8993.4	8735.9	8833.1	8779.7	10655.1	10703.7
40°	7414.4	7370.6	7336.6	6855.6	6253.1	8493.0	8561.0	8318.1	10072.1	10081.8
42.5°	7156.9	7108.3	7118.0	6228.8	5597.2	7890.5	7701.0	7375.5	9100.3	9110.0
45°	6685.6	6768.2	6826.5	5451.5	5402.9	5636.1	7103.4	6899.3	8444.4	8624.2
47.5°	3401.1	3474.0	5330.0	5014.2	5125.9	5009.3	6000.5	6005.3	7025.7	7623.3
50°	3085.3	3065.8	3070.7	2924.9	4732.4	4052.1	4338.8	5504.9	5626.4	6481.5
52.5°	2876.3	2871.5	2575.1	2288.4	2973.5	3566.3	3148.4	3984.1	4183.3	5490.3
55°	2128.1	2283.6	2030.9	2152.4	1860.9	2856.9	2842.3	3595.4	3663.5	4402.0
57.5°	19.4	24.3	58.3	1637.4	1287.6	1428.5	1962.9	2453.6	2575.1	3430.2
60°	4.9	9.7	24.3	48.6	835.7	879.4	1311.8	1418.7	1598.5	2045.5
62.5°	0.0	0.0	9.7	24.3	43.7	359.5	417.8	456.7	704.5	1044.6
65°	0.0	0.0	4.9	14.6	24.3	58.3	102.0	213.8	306.1	379.0
67.5°	0.0	0.0	4.9	9.7	19.4	29.2	58.3	82.6	131.2	223.5
70°	0.0	0.0	4.9	9.7	14.6	24.3	38.9	58.3	77.7	111.7
72.5°	0.0	0.0	4.9	9.7	9.7	29.2	29.2	43.7	58.3	72.9
75°	0.0	0.0	4.9	4.9	9.7	19.4	29.2	34.0	38.9	58.3
77.5°	0.0	0.0	4.9	9.7	14.6	19.4	24.3	38.9	34.0	34.0
80°	0.0	0.0	4.9	14.6	14.6	24.3	29.2	38.9	24.3	24.3
82.5°	0.0	0.0	4.9	19.4	14.6	48.6	48.6	53.4	19.4	19.4
85°	0.0	0.0	14.6	9.7	29.2	48.6	43.7	29.2	24.3	14.6
87.5°	0.0	0.0	4.9	4.9	9.7	14.6	34.0	29.2	9.7	9.7
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°
14265.1	0°	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1	14265.1
14177.7	2.5°	14372.0	14308.9	14440.0	14425.5	14362.3	14333.1	14299.1	14270.0	14056.2
14187.4	5°	14376.9	14279.7	14440.0	14410.9	14401.2	14352.6	14323.4	14367.2	14172.8
14226.3	7.5°	14376.9	14279.7	14454.6	14464.3	14449.8	14410.9	14406.0	14435.2	14274.8
14294.3	10°	14474.0	14435.2	14580.9	14595.5	14576.1	14566.4	14542.1	14522.6	14352.6
14527.5	12.5°	14678.1	14600.4	14765.6	14809.3	14794.7	14819.0	14760.7	14789.9	14614.9
14765.6	15°	14925.9	14930.8	15057.1	15154.3	15144.5	15222.3	15134.8	15212.6	15086.2
15037.7	17.5°	15304.9	15358.3	15538.1	15683.9	15737.3	15795.6	15737.3	15761.6	15581.8
14736.4	20°	14906.5	15105.7	15970.5	16237.8	16349.5	16402.9	16305.8	16334.9	16155.2
14367.2	22.5°	14546.9	14804.4	15572.1	16407.8	16752.8	16859.7	16825.7	16820.8	16752.8
13638.4	25°	14017.3	14537.2	14882.2	15766.5	16849.9	17044.3	17063.7	17058.9	16956.8
13191.4	27.5°	13366.3	13482.9	14376.9	14916.2	16169.7	16908.3	16879.1	16738.2	16602.2
12263.3	30°	12535.4	13065.0	13468.3	14328.3	15290.3	16490.4	16490.4	16383.5	16242.6
11932.9	32.5°	12112.7	12797.8	13171.9	13482.9	14304.0	16024.0	16218.3	16106.6	15994.8
11675.4	35°	11889.2	11991.3	12865.8	13147.6	13842.4	15125.1	15912.2	15800.5	15717.9
10990.4	37.5°	11398.5	11636.6	12044.7	12797.8	13011.6	14391.4	15504.1	15445.8	15348.6
10101.2	40°	10305.3	10941.8	11568.5	12282.8	12506.3	13448.9	15008.5	15032.8	14901.6
9153.8	42.5°	9659.1	10091.5	11073.0	11554.0	12156.4	12841.5	14527.5	14566.4	14474.0
8672.8	45°	8901.1	9382.1	10072.1	10946.6	11767.8	12005.8	13677.2	14085.4	14007.6
7715.6	47.5°	8206.3	8595.0	9440.4	10324.7	11233.3	11199.3	12700.6	13468.3	13361.4
6981.9	50°	7220.0	7900.2	8298.6	9110.0	10465.6	10557.9	11660.9	12744.4	12656.9
5932.5	52.5°	6087.9	6943.1	7705.9	8449.3	9688.2	9906.9	10694.0	12005.8	11947.5
4533.2	55°	5320.3	5942.2	6802.2	7399.8	8745.6	9328.7	9970.0	11301.3	11272.2
3726.6	57.5°	3784.9	4985.0	5694.4	6530.1	7239.5	8293.8	8769.9	9868.0	9595.9
2064.9	60°	2565.4	3129.0	3993.8	4892.7	5368.9	6423.2	6865.3	7744.8	7671.9
1234.1	62.5°	1355.6	1875.5	2492.5	2944.4	3289.3	4314.5	4499.1	5446.6	5422.3
495.6	65°	597.6	792.0	1350.7	1583.9	1938.6	2414.8	2575.1	2915.2	2832.6
242.9	67.5°	311.0	471.3	762.8	937.7	1180.7	1360.4	1491.6	1598.5	1666.5
160.3	70°	189.5	345.0	471.3	651.1	811.4	957.2	1059.2	1205.0	1292.4
82.6	72.5°	140.9	218.6	325.5	500.4	587.9	758.0	860.0	966.9	1044.6
68.0	75°	77.7	145.8	262.4	393.6	471.3	617.1	709.4	782.2	806.5
38.9	77.5°	48.6	111.7	218.6	306.1	369.3	500.4	476.2	544.2	602.5
29.2	80°	34.0	82.6	170.1	252.7	257.5	320.7	379.0	437.3	476.2
19.4	82.5°	24.3	68.0	126.3	194.3	170.1	247.8	296.4	340.1	247.8
14.6	85°	19.4	48.6	63.2	116.6	97.2	174.9	150.6	145.8	97.2
9.7	87.5°	14.6	24.3	43.7	53.4	38.9	38.9	48.6	58.3	48.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14265.1
13910.4
14007.6
14090.2
14211.7
14459.5
14877.3
15426.3
16028.8
16534.1
16801.4
16495.3
16189.2
15902.5
15601.3
15251.4
14872.5
14464.3
14017.3
13439.1
12671.5
11986.4
11306.2
9566.8
7676.7
5427.2
2798.6
1666.5
1297.3
1059.2
792.0
612.2
481.0
179.8
97.2
48.6
0.0

(END OF REPORT)