

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: P484351

Luminaire Tested: **IFLD-L-SA8D-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484351
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

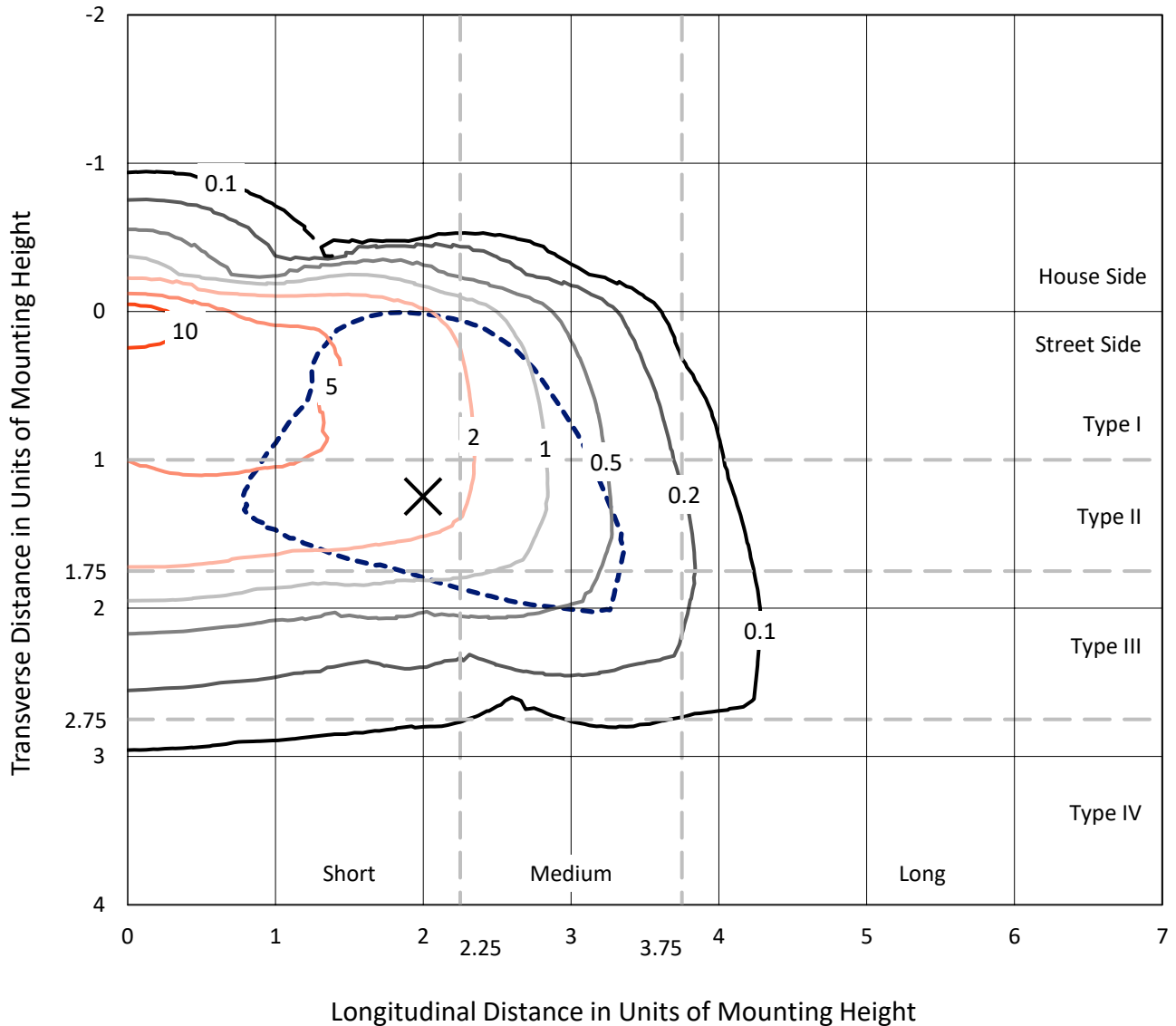
Lumens per Lamp: N/A
Luminaire Lumens: 42453.5 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

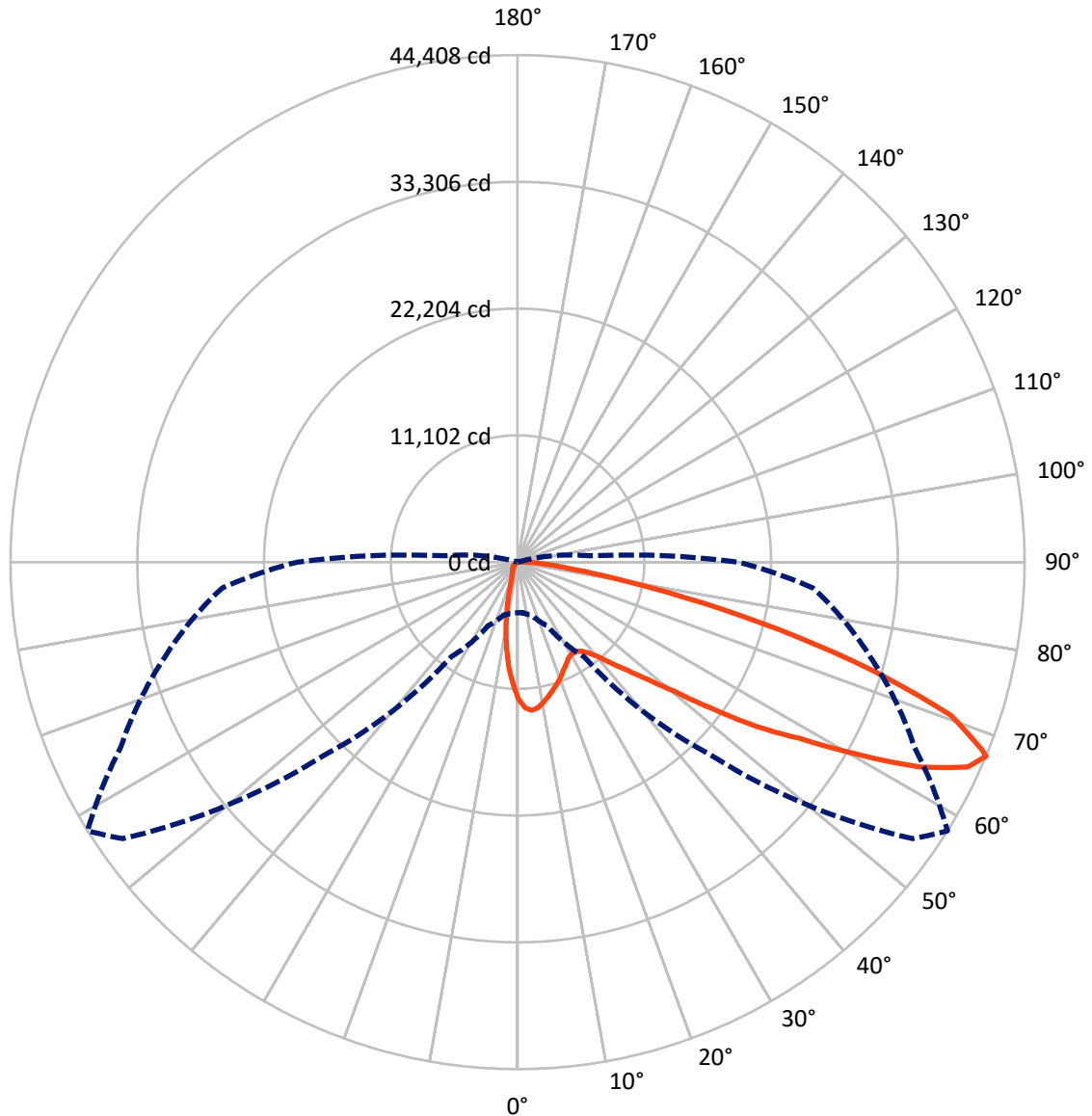
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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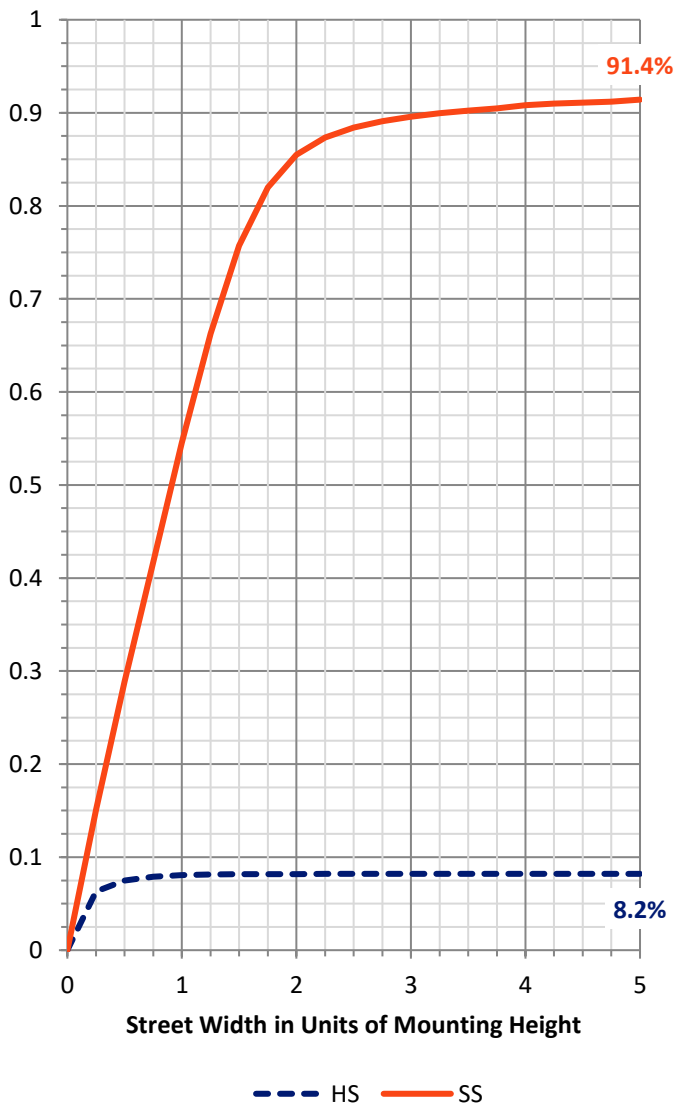
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3509.0	0.0	3509.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	38944.5	0.0	38944.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	42453.5	0.0	42453.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.3	2.2
10°-20°	1979.5	4.7
20°-30°	2626.3	6.2
30°-40°	3639.3	8.6
40°-50°	5938.2	14.0
50°-60°	10437.5	24.6
60°-70°	11560.4	27.2
70°-80°	4790.6	11.3
80°-90°	527.4	1.2
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°	42453.5	100.0
0°-180°	42453.5	100.0



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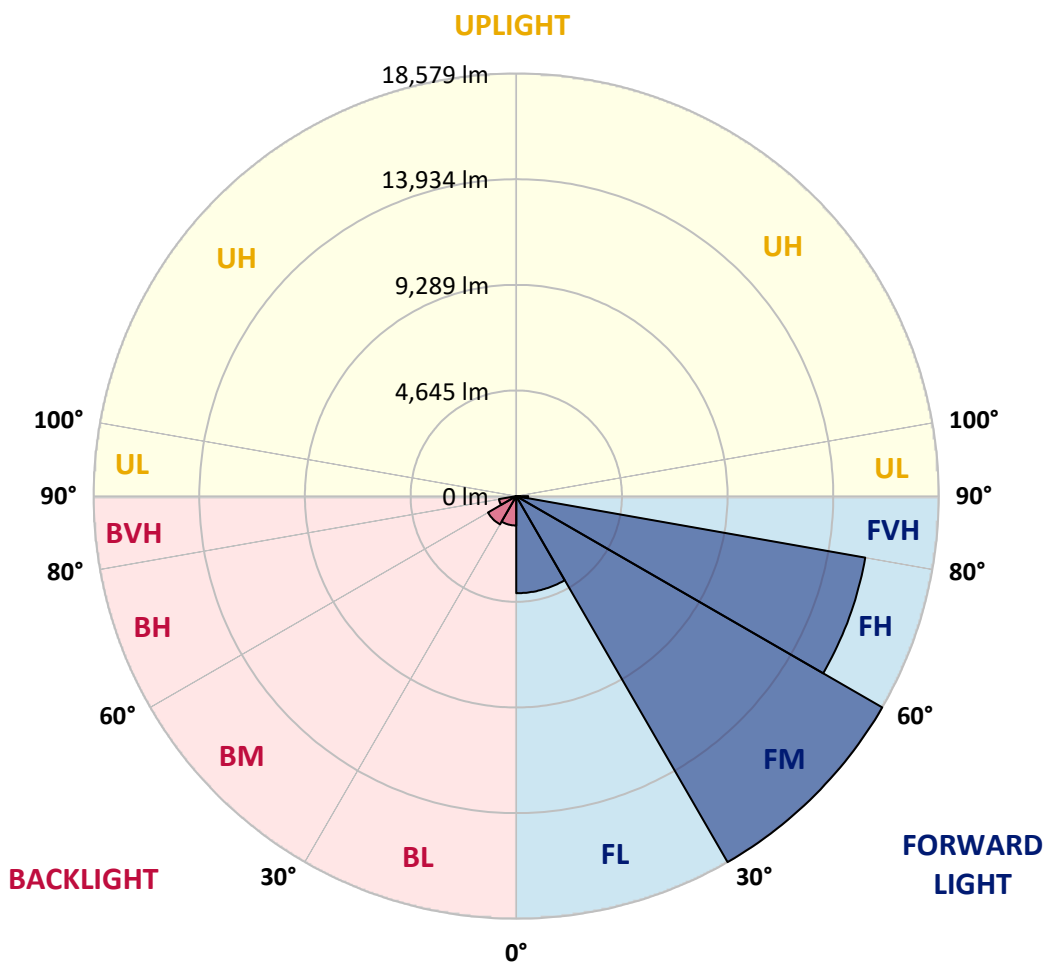
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4267.8	10.1			
FM (30°-60°)	18578.5	43.8			
FH (60°-80°)	15579.5	36.7			G5
FVH (80°-90°)	518.7	1.2			G4/750
BL (0°-30°)	1292.4	3.0	B3/2500		
BM (30°-60°)	1436.5	3.4	B2/2500		
BH (60°-80°)	771.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7
2.5°	13087.3	13132.4	13171.8	13098.5	13160.5	13070.4	12839.3	12788.6	12749.1	12405.3	12208.0
5°	13081.6	13030.9	13070.4	13104.2	13019.6	13087.3	13030.9	13036.5	12884.4	12574.4	12022.0
7.5°	12208.0	12185.5	12208.0	12371.5	12557.5	12704.0	12788.6	12873.1	12771.6	12309.5	11774.0
10°	11030.1	11142.8	11204.8	11497.9	11785.3	12055.8	12320.7	12478.6	12450.4	12264.4	11503.5
12.5°	10207.2	10173.4	10398.8	10590.4	10877.9	11424.6	11886.8	12033.3	12202.4	11943.1	11148.4
15°	9446.3	9356.1	9491.4	9823.9	10314.3	10748.2	11396.4	11616.2	11830.4	11898.0	10956.8
17.5°	8719.2	8764.3	8905.2	9203.9	9666.1	10274.8	10883.5	11199.1	11712.0	11621.9	10669.3
20°	8369.8	8465.6	8516.3	8668.5	8989.7	9598.5	10505.9	10759.5	11306.2	11616.2	10387.5
22.5°	8386.7	8386.7	8268.3	8358.5	8651.6	9125.0	9993.0	10274.8	11142.8	11323.1	10133.9
25°	8567.0	8454.3	8459.9	8352.9	8476.9	8736.1	9530.8	9874.6	10810.2	11351.3	9998.6
27.5°	8702.3	8679.8	8645.9	8617.8	8459.9	8499.4	9226.5	9508.3	10680.6	11317.5	9790.1
30°	9192.7	9091.2	9057.4	8995.4	8786.8	8595.2	8984.1	9339.2	10579.2	11396.4	9671.7
32.5°	9604.1	9621.0	9649.2	9468.8	9288.5	8815.0	9051.7	9333.6	10505.9	11576.8	9790.1
35°	10122.6	10195.9	10207.2	10150.8	9959.2	9491.4	9333.6	9575.9	10629.9	11898.0	9801.4
37.5°	10911.7	10832.8	11047.0	11069.5	10934.2	10314.3	9987.4	10083.2	10996.2	12410.9	10229.7
40°	11424.6	11520.4	11920.6	12168.6	11937.5	11373.9	10934.2	10917.3	11526.0	13216.9	10759.5
42.5°	11993.8	12208.0	12647.6	13183.1	13154.9	12630.7	12185.5	12112.2	12467.3	14383.6	11599.3
45°	12771.6	12963.3	13577.6	14383.6	14823.2	14378.0	13707.3	13560.7	13611.4	15973.0	13030.9
47.5°	14062.3	14011.6	14896.5	15691.2	16412.6	16068.8	15781.4	15353.0	15313.6	17844.2	15009.2
50°	15522.1	15510.8	16299.9	17201.7	18035.9	18706.6	18227.5	17759.7	17771.0	20386.2	17337.0
52.5°	16908.6	17128.4	17979.5	18875.7	20307.3	21028.7	21490.9	21304.9	20408.7	22657.6	19828.2
55°	17641.3	17833.0	18678.4	20222.7	22482.8	24337.1	25588.4	25430.6	23700.2	25216.4	22285.6
57.5°	16948.1	17077.7	18221.9	20245.3	24004.6	28141.6	29342.1	29144.8	27104.5	27172.2	25255.8
60°	14045.4	14248.3	15950.5	18323.3	23412.8	31072.4	34510.5	34211.8	30204.4	29646.4	27166.5
62.5°	9728.1	9863.4	11261.1	14214.5	20606.0	32092.6	39391.4	39554.9	33473.4	31574.0	27735.8
65°	6301.3	6290.0	7090.3	9091.2	14603.4	29003.9	42277.2	43291.7	36629.7	31867.1	27561.0
67°	4452.6	4435.7	4813.3	6166.0	10111.4	23897.5	42226.5	44407.7	38343.1	31951.7	25943.5
67.5°	4108.8	4091.9	4452.6	5670.0	9125.0	22223.6	41595.2	43832.8	38946.2	31833.3	25233.3
70°	3190.1	3145.0	3280.3	3905.9	5314.9	14372.3	35598.3	40265.1	37694.9	28879.9	20149.4
72.5°	2305.2	2355.9	2570.1	3207.0	4170.8	7732.9	27132.7	32560.4	31483.8	21767.0	12805.5
75°	1606.3	1651.4	1995.2	2615.2	3827.0	4689.3	18345.9	23615.7	21930.5	12016.4	5455.8
77.5°	839.8	896.2	1273.8	2091.0	3477.5	3629.7	10962.4	14975.4	11621.9	4277.9	1504.9
80°	388.9	417.1	636.9	1482.3	2908.3	3190.1	6391.5	8330.3	4649.9	958.2	518.5
82.5°	169.1	186.0	293.1	851.1	2062.9	2789.9	3956.6	4368.1	1685.2	310.0	321.3
85°	33.8	39.5	112.7	450.9	997.6	1690.9	2778.6	2592.7	845.4	152.2	253.6
87.5°	0.0	0.0	28.2	129.6	270.5	501.6	1178.0	1178.0	259.3	78.9	95.8
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°	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7	12027.7
2.5°	12033.3	11830.4	11385.1	10973.7	10680.6	10348.1	9908.5	9711.2	9637.9	9536.5	9384.3
5°	11717.7	11469.7	10708.8	9942.3	9102.5	8465.6	7789.2	7394.7	7096.0	6910.0	6848.0
7.5°	11272.4	10765.2	9739.4	8510.7	7422.9	6476.0	5450.2	4757.0	4311.7	4131.3	3962.3
10°	10917.3	10257.9	8696.7	7169.3	5720.7	4334.2	3178.8	2570.1	2107.9	1933.2	1910.7
12.5°	10455.2	9666.1	7721.6	5799.7	3979.2	2581.4	1758.5	1527.4	1397.8	1375.2	1358.3
15°	10071.9	9130.7	6797.3	4492.1	2575.7	1612.0	1369.6	1313.2	1279.4	1268.1	1273.8
17.5°	9812.6	8555.8	5850.4	3269.0	1696.5	1318.9	1262.5	1228.7	1211.8	1206.1	1189.2
20°	9299.7	8071.0	4914.8	2288.3	1324.5	1217.4	1172.3	1144.1	1127.2	1121.6	1116.0
22.5°	9006.7	7456.7	3979.2	1595.0	1178.0	1104.7	1070.9	1048.3	1020.2	1003.2	997.6
25°	8713.6	7005.8	3145.0	1240.0	1070.9	1020.2	969.4	941.2	896.2	873.6	868.0
27.5°	8369.8	6560.5	2423.6	1076.5	963.8	913.1	862.3	817.2	760.9	738.3	727.1
30°	8172.5	6126.6	1826.1	963.8	884.9	817.2	755.3	698.9	636.9	597.4	586.2
32.5°	8071.0	5732.0	1369.6	879.2	800.3	727.1	648.2	580.5	524.2	490.3	484.7
35°	7947.1	5348.8	1076.5	800.3	721.4	642.5	563.6	496.0	439.6	411.4	400.2
37.5°	8076.7	5123.3	896.2	738.3	659.4	569.3	484.7	417.1	372.0	343.8	338.2
40°	8431.8	4937.3	777.8	682.0	597.4	501.6	422.7	355.1	315.6	293.1	281.8
42.5°	8978.5	4937.3	704.5	625.6	541.1	439.6	360.7	310.0	270.5	248.0	242.4
45°	9970.4	5089.5	642.5	569.3	473.4	377.6	310.0	259.3	219.8	197.3	191.6
47.5°	11362.6	5438.9	591.8	518.5	422.7	332.5	270.5	219.8	180.4	157.8	152.2
50°	13233.8	6233.6	541.1	456.5	377.6	287.4	225.4	174.7	140.9	118.4	112.7
52.5°	15567.2	7360.9	490.3	422.7	321.3	242.4	180.4	140.9	107.1	90.2	84.5
55°	18035.9	8741.8	428.4	377.6	276.2	202.9	146.5	107.1	78.9	67.6	62.0
57.5°	20521.4	9807.0	377.6	326.9	225.4	163.4	118.4	84.5	56.4	45.1	39.5
60°	21840.3	9908.5	326.9	270.5	180.4	129.6	90.2	62.0	39.5	28.2	22.5
62.5°	22043.2	9006.7	281.8	219.8	146.5	101.5	62.0	45.1	22.5	11.3	11.3
65°	21000.5	7507.4	242.4	174.7	112.7	73.3	45.1	28.2	11.3	5.6	0.0
67°	19309.6	6290.0	208.5	146.5	90.2	56.4	33.8	16.9	5.6	0.0	0.0
67.5°	18655.8	5951.8	197.3	135.3	84.5	50.7	28.2	16.9	5.6	0.0	0.0
70°	14479.4	4249.7	146.5	95.8	62.0	39.5	22.5	11.3	0.0	0.0	0.0
72.5°	8871.4	2485.6	112.7	67.6	45.1	28.2	16.9	5.6	0.0	0.0	0.0
75°	3719.9	856.7	95.8	50.7	33.8	16.9	11.3	5.6	0.0	0.0	0.0
77.5°	969.4	321.3	67.6	33.8	22.5	16.9	11.3	5.6	0.0	0.0	0.0
80°	394.5	146.5	45.1	22.5	22.5	16.9	11.3	5.6	0.0	0.0	0.0
82.5°	259.3	67.6	28.2	22.5	16.9	11.3	5.6	0.0	0.0	0.0	0.0
85°	197.3	39.5	16.9	16.9	11.3	5.6	0.0	0.0	0.0	0.0	0.0
87.5°	84.5	22.5	16.9	11.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0
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)