

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: P483945

Luminaire Tested: **IFLD-S-SA6C-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

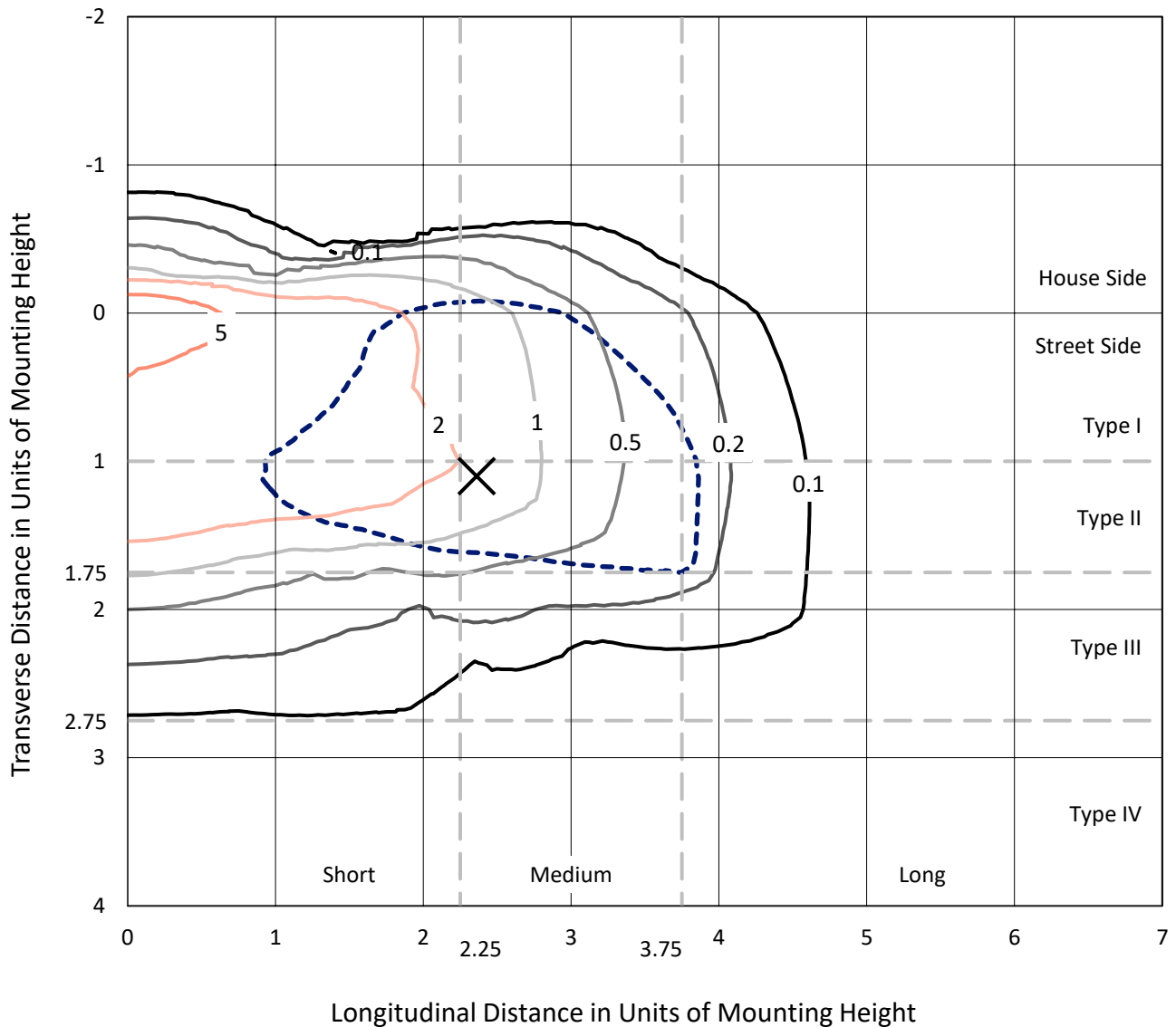
Lumens per Lamp: N/A
Luminaire Lumens: 31141.9 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

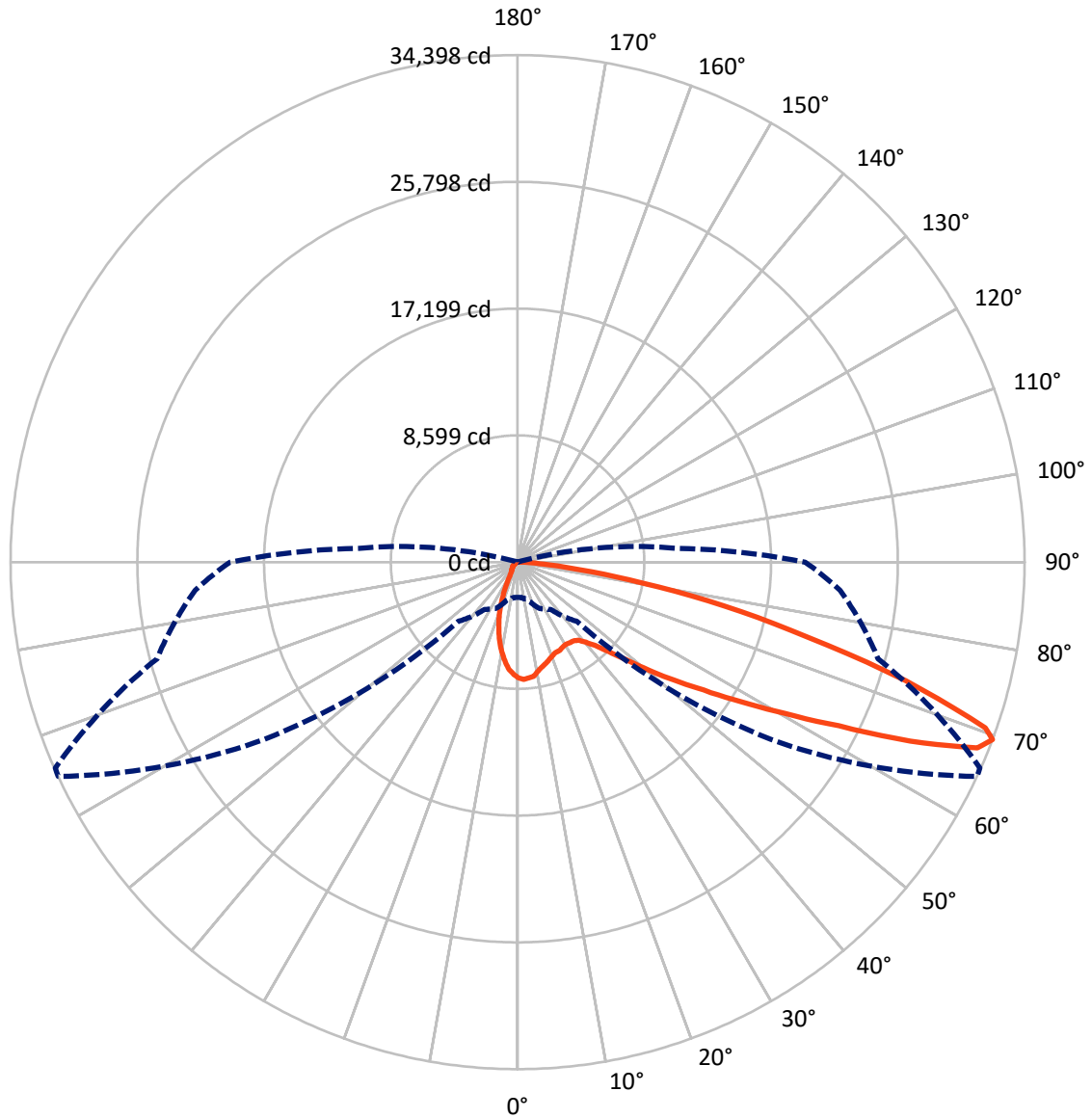
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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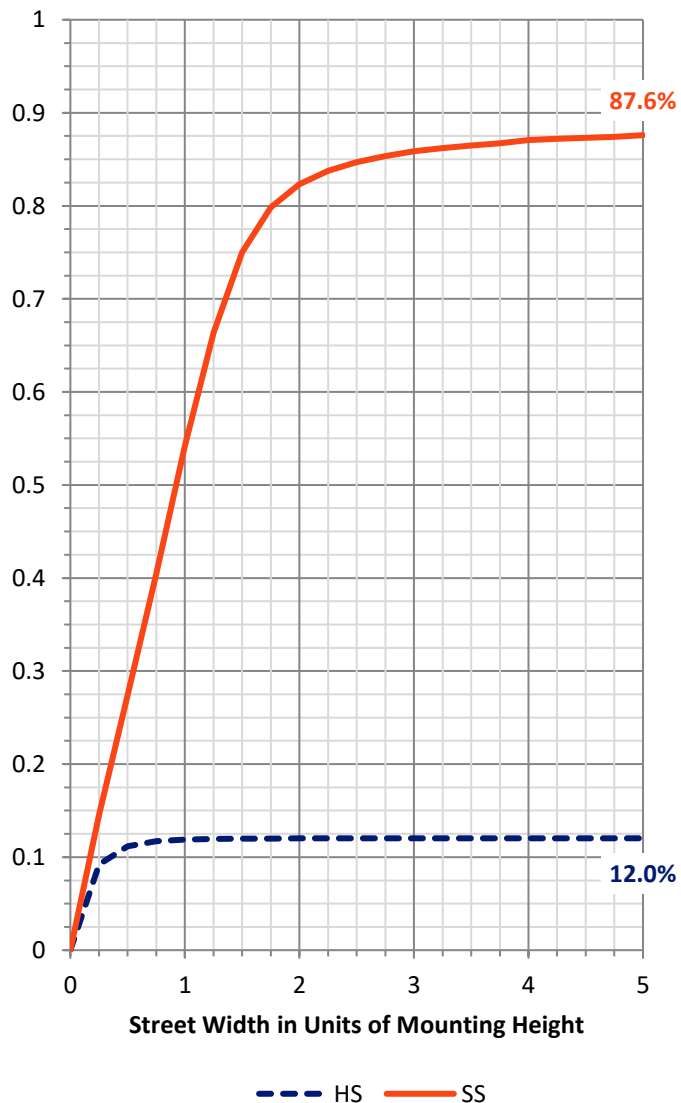
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3777.7	0.0	3777.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	27364.2	0.0	27364.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	31141.9	0.0	31141.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.5	2.1
10°-20°	1405.8	4.5
20°-30°	1957.2	6.3
30°-40°	2773.6	8.9
40°-50°	4371.0	14.0
50°-60°	7092.7	22.8
60°-70°	7921.1	25.4
70°-80°	4460.5	14.3
80°-90°	517.6	1.7
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°	31141.9	100.0
0°-180°	31141.9	100.0

Coefficient of Utilization



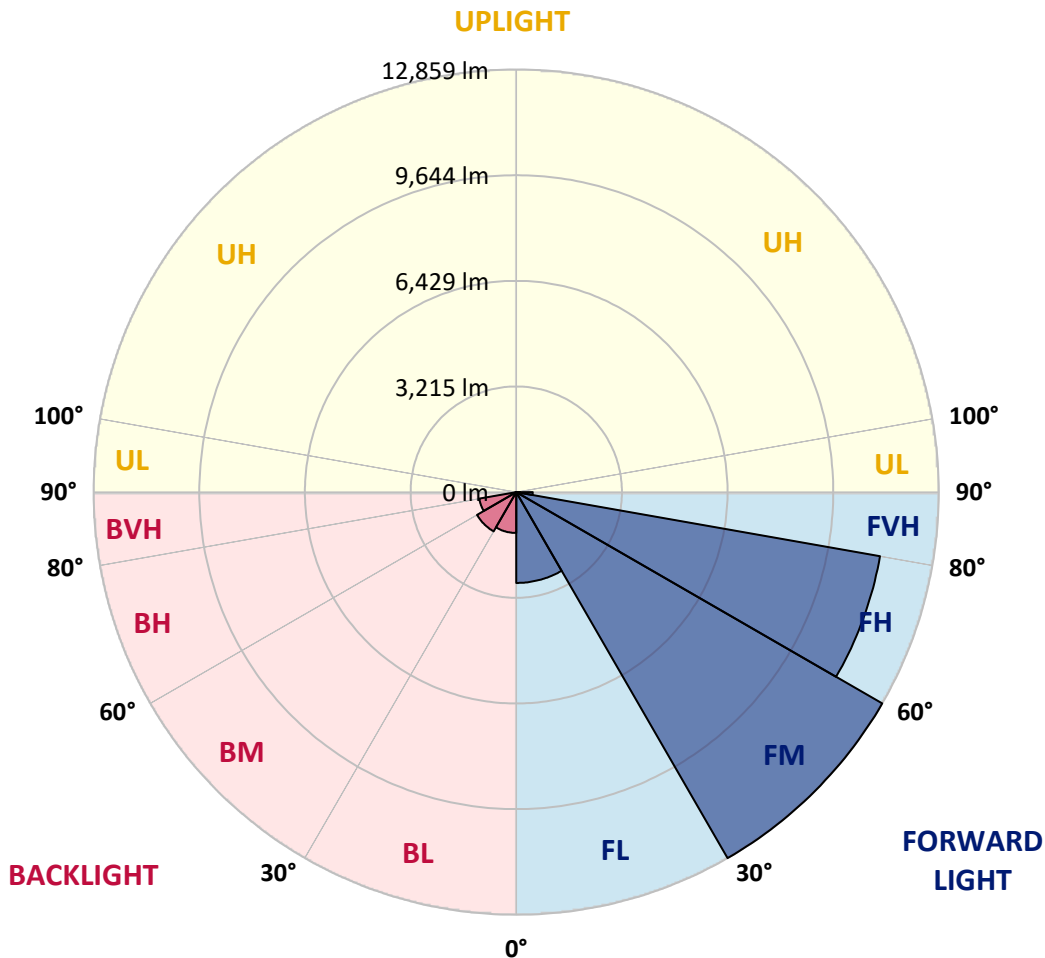
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2763.5	8.9			
FM (30°-60°)	12858.8	41.3			
FH (60°-80°)	11238.6	36.1			G4/12000
FVH (80°-90°)	503.3	1.6			G4/750
BL (0°-30°)	1242.0	4.0	B3/2500		
BM (30°-60°)	1378.5	4.4	B2/2500		
BH (60°-80°)	1143.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	14.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6
2.5°	7561.7	7620.5	7637.3	7696.2	7725.6	7851.6	7923.0	7965.0	7944.0	7990.2	7994.4
5°	7024.0	6990.4	7078.6	7141.6	7276.1	7494.5	7717.2	7889.4	7969.2	8044.8	8032.2
7.5°	6448.5	6431.7	6519.9	6662.7	6784.6	7049.2	7406.3	7830.6	7813.8	7998.6	8053.2
10°	6053.6	6070.4	6099.8	6242.6	6423.3	6692.1	7137.4	7532.3	7620.5	8011.2	8120.5
12.5°	5692.3	5721.7	5776.3	5923.4	6133.4	6410.7	6843.4	7305.5	7439.9	7939.8	8158.3
15°	5574.7	5507.5	5616.7	5725.9	5944.4	6192.2	6557.7	7133.2	7192.0	7855.8	8221.3
17.5°	5478.1	5436.0	5486.5	5574.7	5805.7	6007.4	6351.9	6948.4	7057.6	7822.2	8212.9
20°	5507.5	5469.7	5490.7	5557.9	5662.9	5851.9	6171.2	6772.0	6889.6	7666.8	8200.3
22.5°	5591.5	5620.9	5583.1	5599.9	5633.5	5730.1	6074.6	6645.9	6746.7	7637.3	8271.7
25°	5969.6	5919.2	5868.7	5847.7	5650.3	5692.3	6045.2	6637.5	6708.9	7532.3	8212.9
27.5°	6364.5	6322.4	6301.4	6179.6	5910.8	5784.7	6049.4	6519.9	6616.5	7490.3	8141.5
30°	6843.4	6898.0	6814.0	6666.9	6293.0	5982.2	6095.6	6461.1	6595.5	7330.7	8095.3
32.5°	7347.5	7376.9	7418.9	7309.7	6826.6	6280.4	6234.2	6515.7	6524.1	7330.7	7990.2
35°	7918.8	7876.8	7986.0	7994.4	7570.1	6809.8	6498.9	6553.5	6641.7	7297.1	7952.4
37.5°	8410.3	8481.7	8607.8	8809.4	8372.5	7557.5	6910.6	6729.9	6767.7	7452.5	7981.8
40°	8948.0	9019.5	9305.1	9506.8	9258.9	8397.7	7536.5	7141.6	7171.0	7683.6	8133.1
42.5°	9540.4	9679.0	10019.3	10372.2	10305.0	9464.8	8343.1	7746.6	7734.0	8259.1	8443.9
45°	10342.8	10527.6	10897.3	11304.8	11363.6	10687.2	9418.6	8649.8	8691.8	9011.1	9086.7
47.5°	11460.2	11451.8	11813.1	12266.8	12607.1	11955.9	10704.1	9863.9	9859.7	10199.9	10040.3
50°	12539.9	12544.1	12640.7	13165.8	14048.0	13716.1	12296.2	11477.0	11430.8	11598.9	11342.6
52.5°	13039.8	12981.0	12909.6	13543.9	15157.1	15934.2	14312.7	13304.4	13266.6	13165.8	13098.6
55°	12514.7	12535.7	12531.5	13191.0	15741.0	18274.2	16900.5	15316.7	15253.7	14938.6	15031.0
57.5°	10830.1	10762.9	10909.9	11939.1	15073.1	19870.5	20601.5	17854.1	17690.2	16644.2	16434.2
60°	8061.6	8082.7	8204.5	9418.6	13413.7	20206.6	24142.9	20832.6	20126.8	17845.7	17555.8
62.5°	5629.3	5587.3	5633.5	6314.0	9590.8	18862.3	26537.5	24453.8	23773.2	19211.0	19043.0
65°	4028.7	3974.1	4159.0	4574.8	5759.5	14421.9	26877.8	29276.5	28667.4	21391.3	20988.0
67.5°	2898.7	2890.3	3104.5	3860.7	4091.7	8305.3	24357.2	33645.5	33275.8	23979.1	22172.7
69°	2398.7	2403.0	2608.8	3457.4	3906.9	5671.3	20958.6	34397.5	34330.3	25315.0	21950.0
70°	2092.1	2108.9	2348.3	3217.9	3831.3	4663.1	18068.3	33658.1	33590.9	25575.5	21214.9
72.5°	1289.7	1302.3	1617.4	2579.4	3642.2	3806.1	10804.9	27537.3	27768.4	24382.4	18278.4
75°	617.5	621.7	848.6	1865.2	3512.0	3608.6	5788.9	20320.1	20807.4	19685.7	14283.3
77.5°	327.7	327.7	407.5	991.4	2844.1	3394.4	3436.4	14333.7	14737.0	12447.4	8120.5
80°	163.8	168.0	247.9	516.7	1764.4	3327.2	2684.4	8549.0	8767.4	5079.0	2529.0
82.5°	63.0	67.2	117.6	310.9	915.8	2810.4	2356.7	4205.2	4150.6	1188.9	617.5
85°	8.4	8.4	42.0	184.8	390.7	1239.3	1945.0	1756.0	1697.2	260.5	298.3
87.5°	0.0	0.0	8.4	54.6	117.6	361.3	752.0	483.1	537.7	71.4	147.0
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°	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6	7851.6
2.5°	7973.4	7885.2	7750.8	7620.5	7481.9	7313.9	7129.0	7061.8	6944.2	6935.8	7003.0
5°	7965.0	7822.2	7586.9	7309.7	6914.8	6616.5	6293.0	6057.8	5877.1	5759.5	5788.9
7.5°	8007.0	7834.8	7427.3	6830.8	6322.4	5730.1	5230.2	4885.7	4570.6	4415.2	4398.4
10°	7939.8	7708.8	7112.2	6276.2	5528.5	4700.9	3969.9	3507.8	3037.3	2865.1	2873.5
12.5°	7977.6	7654.2	6772.0	5704.9	4675.7	3600.2	2726.4	2096.3	1655.2	1512.3	1495.5
15°	8002.8	7536.5	6444.3	5020.1	3730.5	2453.4	1579.6	1188.9	1050.2	1025.0	1020.8
17.5°	7906.2	7393.7	5982.2	4343.8	2764.2	1491.3	1050.2	970.4	945.2	928.4	920.0
20°	7902.0	7309.7	5583.1	3650.6	1844.2	1016.6	907.4	878.0	840.2	827.6	827.6
22.5°	7830.6	7133.2	5104.2	2890.3	1176.3	873.8	815.0	768.8	726.8	710.0	705.8
25°	7809.6	6927.4	4654.7	2171.9	894.8	781.4	722.6	655.4	604.9	579.7	567.1
27.5°	7750.8	6750.9	4201.0	1529.2	781.4	697.4	621.7	550.3	491.5	453.7	449.5
30°	7540.7	6566.1	3696.8	1058.6	710.0	617.5	533.5	449.5	390.7	365.5	357.1
32.5°	7452.5	6393.9	3146.5	815.0	646.9	546.1	449.5	373.9	327.7	302.5	298.3
35°	7347.5	6141.8	2613.0	710.0	588.1	474.7	378.1	315.1	277.3	256.3	256.3
37.5°	7360.1	5940.2	2113.1	642.7	525.1	407.5	323.5	268.9	235.3	214.2	214.2
40°	7322.3	5780.5	1642.6	583.9	466.3	348.7	273.1	226.9	197.4	176.4	172.2
42.5°	7494.5	5738.5	1239.3	533.5	407.5	298.3	235.3	193.2	163.8	138.6	138.6
45°	7784.4	5805.7	966.2	487.3	348.7	256.3	201.6	159.6	130.2	113.4	109.2
47.5°	8557.4	6070.4	756.2	449.5	298.3	222.7	168.0	130.2	105.0	88.2	84.0
50°	9679.0	6662.7	642.7	394.9	252.1	189.0	138.6	100.8	84.0	67.2	63.0
52.5°	11275.4	7658.4	583.9	348.7	210.0	155.4	109.2	79.8	63.0	50.4	46.2
55°	13014.6	8901.8	529.3	294.1	176.4	126.0	88.2	63.0	46.2	33.6	29.4
57.5°	14371.5	9977.3	483.1	243.7	142.8	100.8	67.2	46.2	33.6	21.0	16.8
60°	15854.4	10733.5	424.3	193.2	117.6	75.6	50.4	33.6	25.2	12.6	12.6
62.5°	17383.6	11619.9	348.7	151.2	92.4	58.8	37.8	25.2	16.8	4.2	4.2
65°	19509.3	12313.0	268.9	117.6	71.4	42.0	29.4	21.0	8.4	0.0	0.0
67.5°	20110.0	11972.7	197.4	92.4	50.4	29.4	21.0	12.6	4.2	0.0	0.0
69°	19509.3	10783.9	172.2	79.8	42.0	25.2	16.8	8.4	4.2	0.0	0.0
70°	18412.8	9859.7	151.2	67.2	37.8	25.2	12.6	8.4	4.2	0.0	0.0
72.5°	15400.7	7561.7	117.6	50.4	29.4	21.0	12.6	8.4	0.0	0.0	0.0
75°	11296.4	4671.5	88.2	37.8	25.2	16.8	12.6	8.4	0.0	0.0	0.0
77.5°	6053.6	1705.6	63.0	25.2	16.8	12.6	12.6	8.4	0.0	0.0	0.0
80°	1659.4	504.1	46.2	16.8	12.6	8.4	8.4	4.2	0.0	0.0	0.0
82.5°	453.7	130.2	29.4	16.8	12.6	8.4	4.2	0.0	0.0	0.0	0.0
85°	243.7	50.4	16.8	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	126.0	16.8	12.6	8.4	8.4	4.2	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)