

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: P482074

Luminaire Tested: **IFLD-S-SA6D-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482074
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

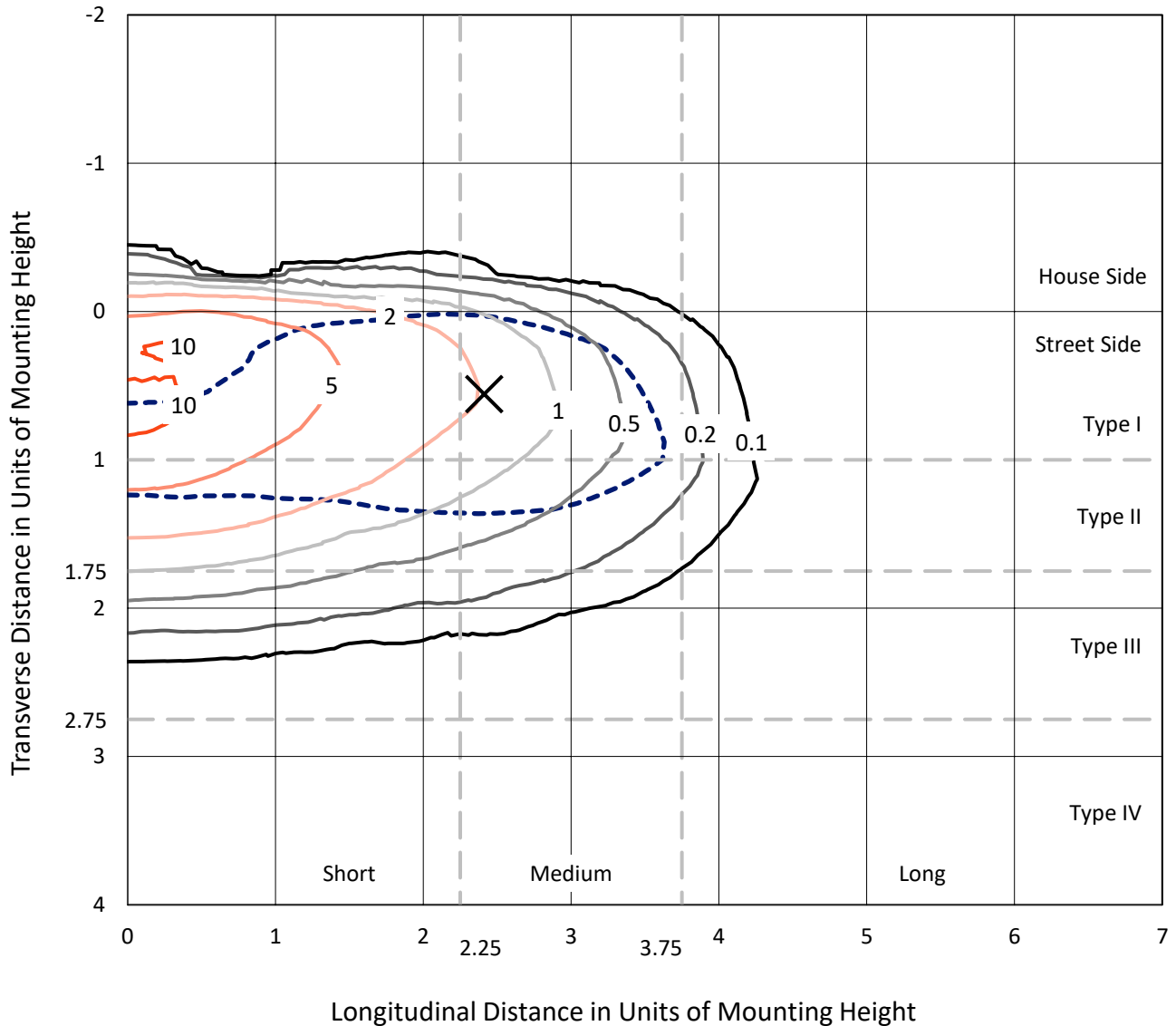
Lumens per Lamp: N/A
Luminaire Lumens: 35946.9 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

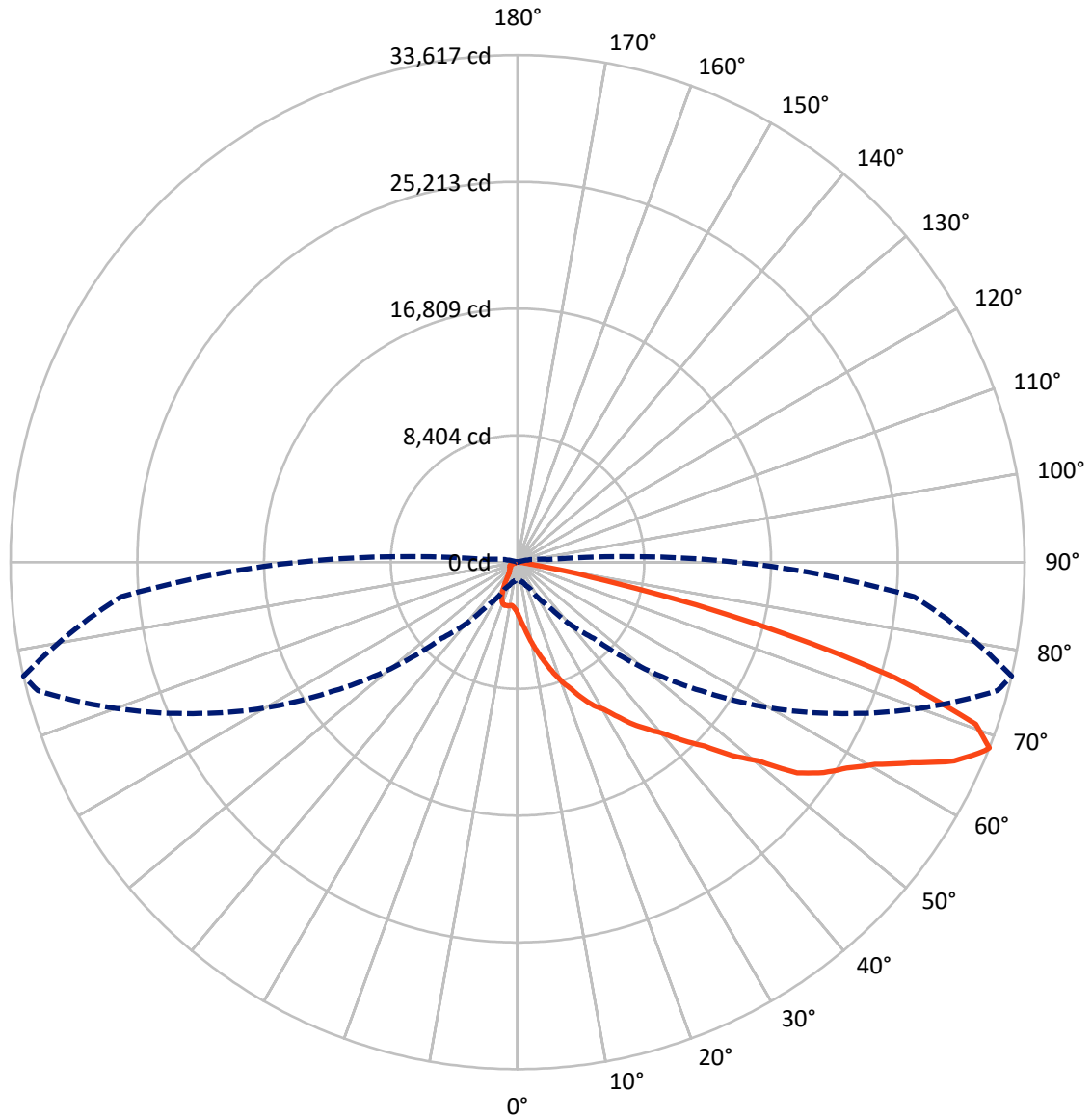
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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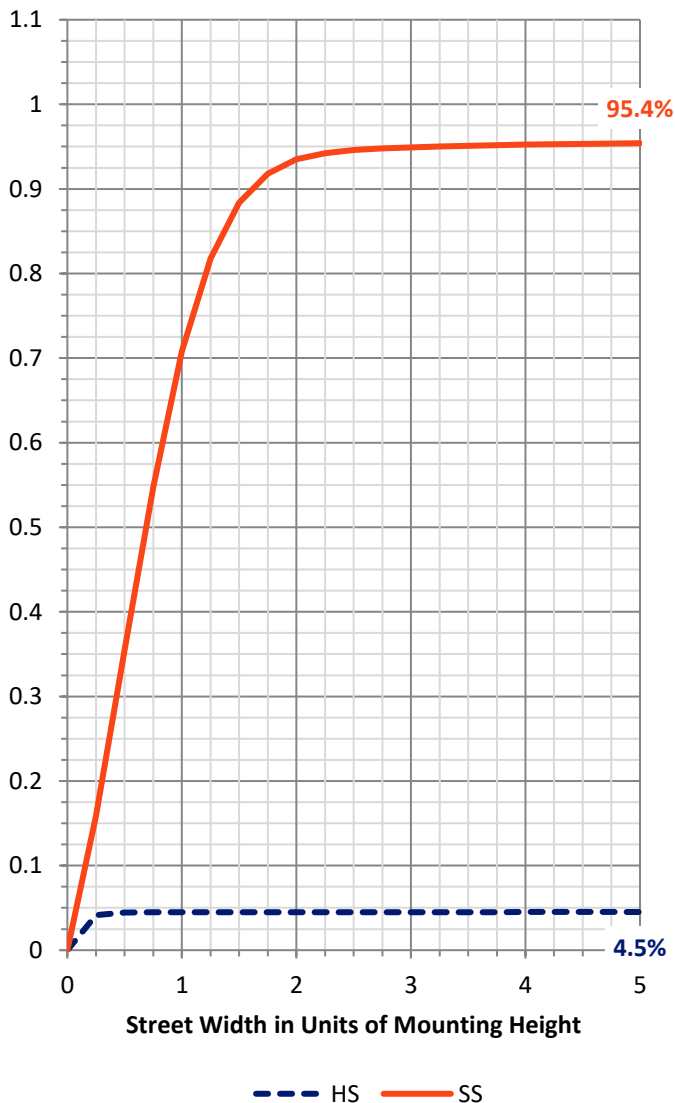
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.2	0.0	1630.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	34316.7	0.0	34316.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	35946.9	0.0	35946.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.1	1.1
10°-20°	1483.0	4.1
20°-30°	2874.1	8.0
30°-40°	5010.6	13.9
40°-50°	7338.5	20.4
50°-60°	8621.6	24.0
60°-70°	7280.2	20.3
70°-80°	2822.0	7.9
80°-90°	114.8	0.3
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°	35946.9	100.0
0°-180°	35946.9	100.0



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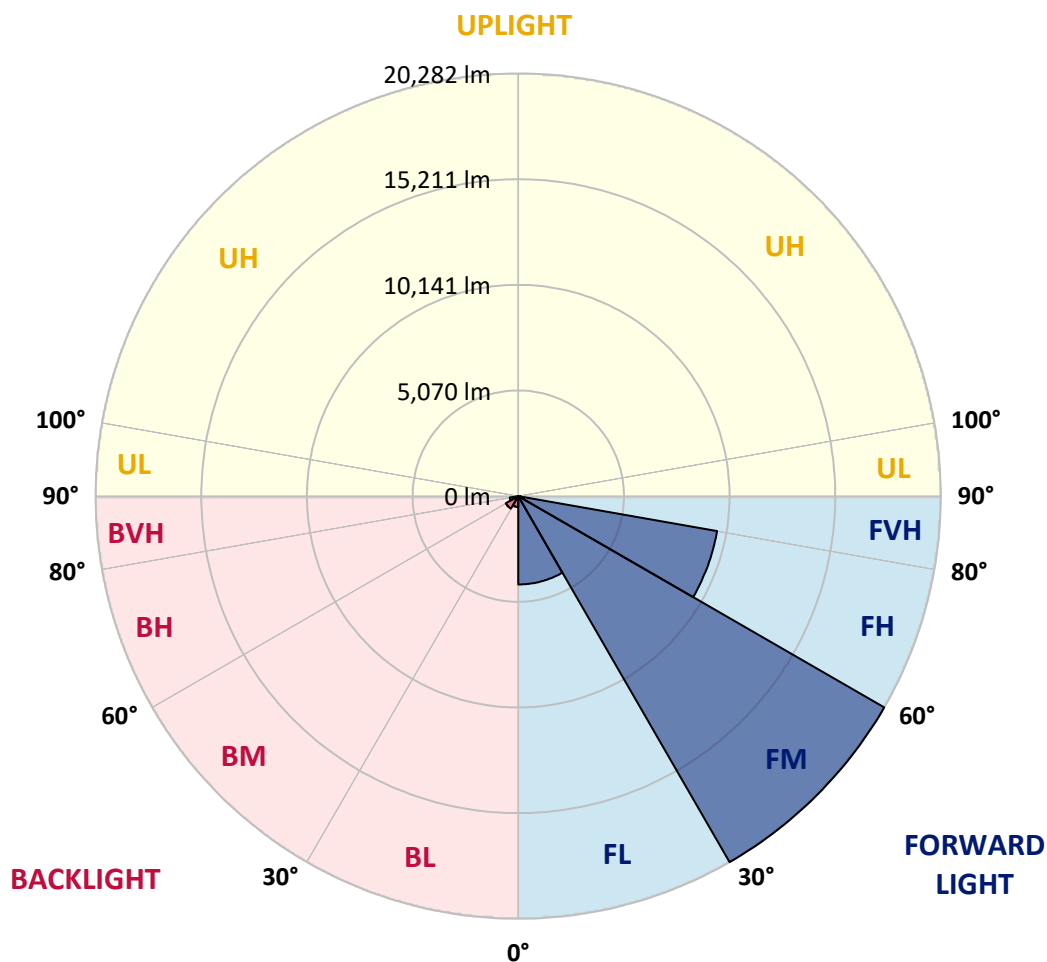
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4238.4	11.8			
FM	(30°-60°)	20281.9	56.4			
FH	(60°-80°)	9690.5	27.0			G4/12000
FVH	(80°-90°)	105.9	0.3			G2/225
BL	(0°-30°)	520.8	1.4	B2/1000		
BM	(30°-60°)	688.8	1.9	B1/1000		
BH	(60°-80°)	411.6	1.1	B1/500		G1/500
BVH	(80°-90°)	8.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0
2.5°	5229.8	5130.8	5026.8	4997.0	4803.9	4586.0	4382.9	4184.8	3853.0	3858.0	3630.2
5°	6740.3	6616.5	6532.3	6512.5	6210.4	5834.0	5527.0	4967.3	4417.6	4293.8	3877.8
7.5°	7983.4	7943.8	7819.9	7715.9	7493.1	7032.5	6671.0	5868.7	5031.7	4893.0	4179.9
10°	8736.2	8795.6	8850.1	8716.3	8543.0	8211.2	7715.9	6849.3	5730.0	5556.7	4571.1
12.5°	9538.5	9439.4	9474.1	9583.0	9355.2	9280.9	8666.8	7859.6	6547.2	6215.3	5066.4
15°	9746.5	9786.1	9870.3	10187.2	10340.8	10127.8	9597.9	8676.7	7394.0	6933.5	5527.0
17.5°	9885.1	9865.3	9969.3	10444.8	10677.5	10880.6	10548.8	9588.0	8132.0	7720.9	6101.4
20°	10058.5	9949.5	10177.3	10479.4	11019.2	11445.2	11430.3	10504.2	8904.5	8468.7	6671.0
22.5°	10702.3	10618.1	10801.3	10831.0	11207.4	11801.7	11945.4	11252.0	9696.9	9162.1	7285.1
25°	11890.9	12044.4	11826.5	11638.3	11752.2	12143.5	12247.5	11915.6	10494.3	10004.0	7899.2
27.5°	13629.2	13609.4	13178.5	12935.8	12663.5	12613.9	12688.2	12534.7	11123.2	10771.6	8404.3
30°	15496.3	15332.8	14936.6	14352.3	13753.0	13381.6	13277.6	13119.1	11861.2	11351.1	8904.5
32.5°	16982.0	17071.2	16630.4	15867.7	14872.3	14372.1	13871.9	13698.5	12673.4	12222.7	9479.0
35°	18348.9	18230.0	17878.4	17234.6	16343.1	15535.9	14753.4	14382.0	13649.0	13203.3	10112.9
37.5°	19359.2	19507.8	18839.2	18225.1	17338.6	16670.0	15902.4	15090.2	14654.4	14060.1	10885.5
40°	20315.0	20082.3	19631.6	19067.0	18244.9	17734.8	17229.6	15961.8	15724.1	14956.5	11757.2
42.5°	20146.6	20161.5	19913.9	19458.2	18864.0	18571.8	18398.4	17021.6	16694.8	16204.5	12609.0
45°	19458.2	19517.7	19601.9	19379.0	19428.5	19136.3	19601.9	18239.9	17918.0	17398.0	13589.6
47.5°	18700.5	18799.6	18779.8	19185.9	19646.4	19745.5	20909.3	19592.0	19453.3	19166.1	14946.5
50°	17442.6	17482.2	17863.6	18601.5	19230.4	20265.5	21889.9	21067.8	21280.8	20716.2	16561.1
52.5°	15293.2	15436.8	16417.4	17472.3	18740.1	20528.0	22553.5	23261.7	23801.6	23222.1	18111.2
55°	12574.3	12772.4	13738.1	15714.2	17571.4	20131.8	23157.7	24420.6	25515.1	24638.5	19052.1
57.5°	10117.9	10137.7	11004.4	13044.8	15912.3	19354.2	23464.8	24985.2	26456.1	25752.8	20201.1
60°	7711.0	7631.8	8409.3	10177.3	13119.1	17442.6	22697.2	25272.4	27629.8	27223.7	21582.9
62.5°	4962.4	4838.6	5685.4	7408.9	10246.7	14258.2	21161.9	25277.4	29462.2	29308.7	23895.7
65°	2456.4	2372.2	3100.2	4541.4	7091.9	10905.3	18972.9	25183.3	31700.8	31799.8	26149.0
67.5°	1297.5	1327.3	1560.0	2302.9	4090.7	7706.0	15674.6	24078.9	32844.8	33399.4	26693.8
68°	1193.5	1203.4	1386.7	1916.6	3550.9	7146.4	14892.1	23757.0	32933.9	33617.4	26391.7
70°	970.7	985.5	1049.9	1203.4	1921.6	4650.4	11489.7	21023.2	31591.8	32215.8	23890.7
72.5°	772.6	817.2	856.8	921.2	1129.2	2441.6	7146.4	16382.8	26099.5	26168.8	18596.5
75°	589.3	624.0	703.3	757.7	881.5	1342.1	3402.3	9989.1	17125.6	16283.7	10954.9
77.5°	455.6	485.3	520.0	594.3	737.9	906.3	1040.0	4239.3	7275.2	5987.5	3095.3
80°	272.4	292.2	406.1	465.5	643.8	614.1	411.1	1178.7	1475.8	1163.8	564.6
82.5°	158.5	173.3	232.8	356.6	450.7	331.8	242.7	366.5	361.5	317.0	188.2
85°	5.0	9.9	128.8	213.0	158.5	89.1	148.6	153.5	128.8	118.9	84.2
87.5°	0.0	5.0	34.7	29.7	34.7	19.8	29.7	39.6	49.5	44.6	34.7
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°	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0
2.5°	3476.6	3367.7	3125.0	2941.8	2743.7	2624.8	2505.9	2431.7	2392.0	2367.3	2387.1
5°	3565.8	3338.0	2946.7	2600.0	2372.2	2218.7	2065.2	1985.9	1911.7	1872.0	1896.8
7.5°	3763.9	3422.2	2773.4	2397.0	2129.6	1891.8	1698.7	1545.2	1456.0	1376.8	1391.6
10°	4006.5	3471.7	2778.3	2278.1	1891.8	1515.5	1243.1	1049.9	941.0	871.6	866.7
12.5°	4254.2	3664.8	2798.1	2159.3	1599.6	1139.1	817.2	673.5	609.2	574.5	574.5
15°	4630.6	3838.2	2748.6	1941.4	1213.4	742.9	559.6	510.1	485.3	455.6	460.6
17.5°	4957.4	4115.5	2723.9	1614.5	832.0	534.9	465.5	411.1	386.3	356.6	356.6
20°	5398.2	4288.8	2590.1	1248.0	574.5	445.7	376.4	326.9	287.2	262.5	267.4
22.5°	5799.3	4422.6	2352.4	851.8	440.8	351.6	277.3	227.8	193.1	163.4	168.4
25°	6235.2	4556.3	2005.7	525.0	312.0	217.9	148.6	109.0	74.3	54.5	54.5
27.5°	6547.2	4595.9	1555.1	312.0	188.2	99.0	34.7	5.0	0.0	0.0	0.0
30°	6864.1	4610.7	1074.7	168.4	74.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7225.7	4605.8	673.5	89.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7503.0	4521.6	321.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7923.9	4397.8	99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8404.3	4174.9	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8835.2	3947.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9325.5	3664.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10187.2	3546.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11311.4	3451.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12004.8	3174.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12366.3	2887.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12901.2	2748.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13693.6	2758.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14931.7	2897.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15615.1	2758.5	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15035.7	2208.8	94.1	24.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	14535.5	2030.5	94.1	24.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12014.7	1322.3	89.1	24.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8751.0	733.0	74.3	19.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	5091.1	366.5	54.5	19.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1327.3	183.2	44.6	24.8	14.9	5.0	0.0	0.0	0.0	0.0	0.0
80°	262.5	118.9	39.6	29.7	19.8	9.9	0.0	0.0	0.0	0.0	0.0
82.5°	123.8	84.2	39.6	29.7	24.8	14.9	5.0	0.0	0.0	0.0	0.0
85°	64.4	39.6	39.6	29.7	29.7	19.8	9.9	0.0	0.0	0.0	0.0
87.5°	29.7	14.9	14.9	14.9	14.9	9.9	5.0	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)