

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: P482128

Luminaire Tested: **IFLD-L-SA8D-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482128
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

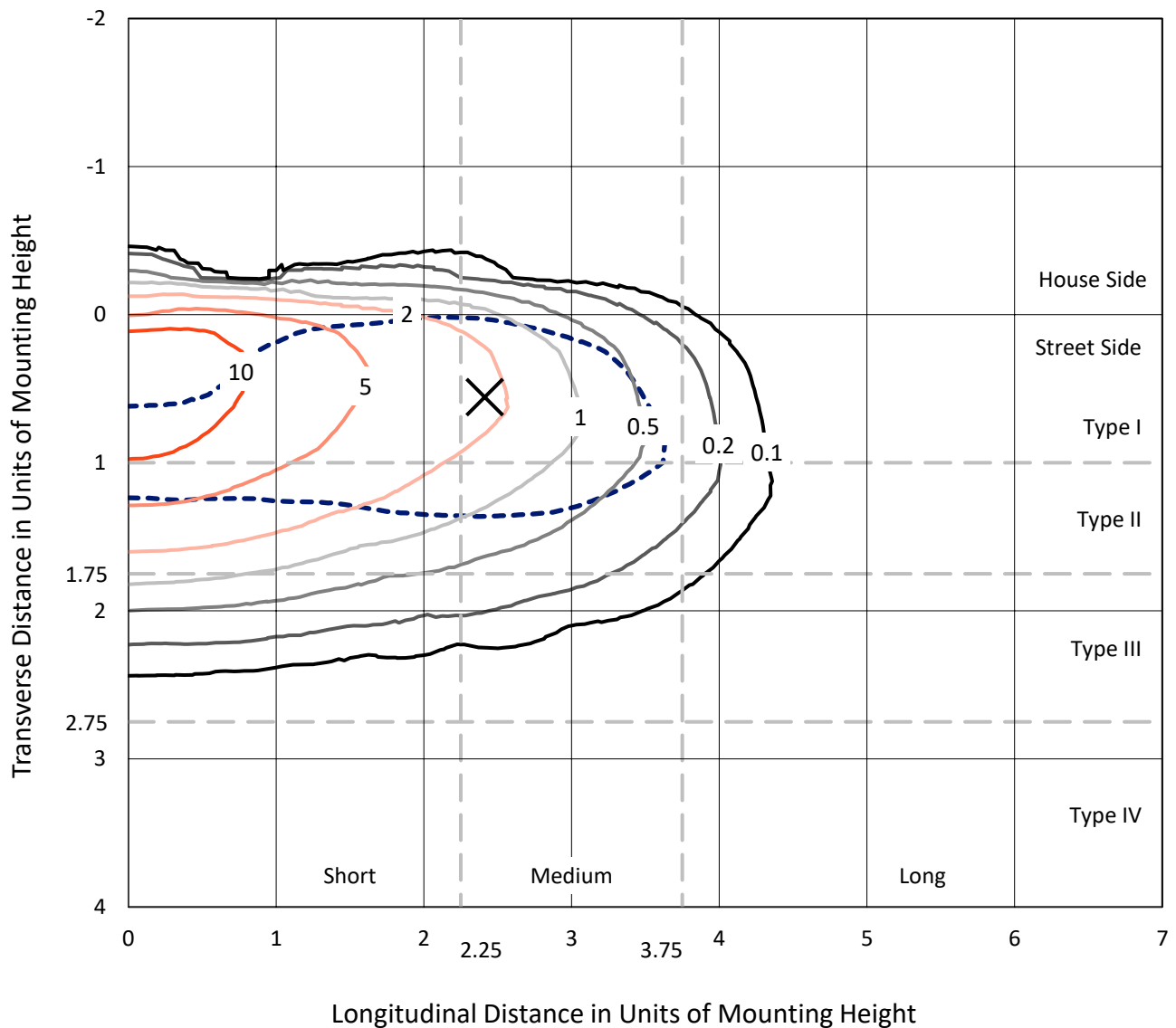
Lumens per Lamp: N/A
Luminaire Lumens: 44832.9 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

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

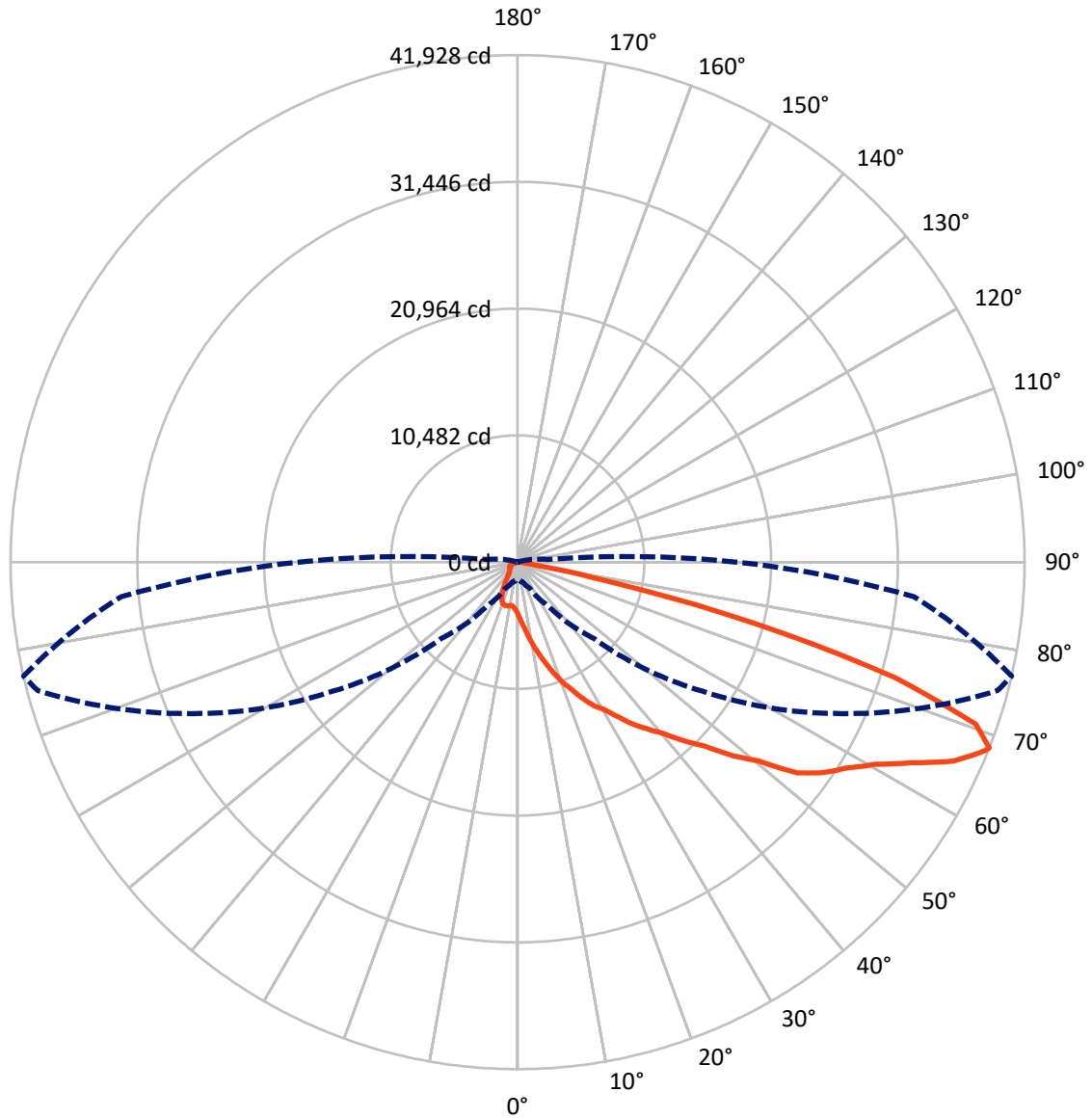
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.1 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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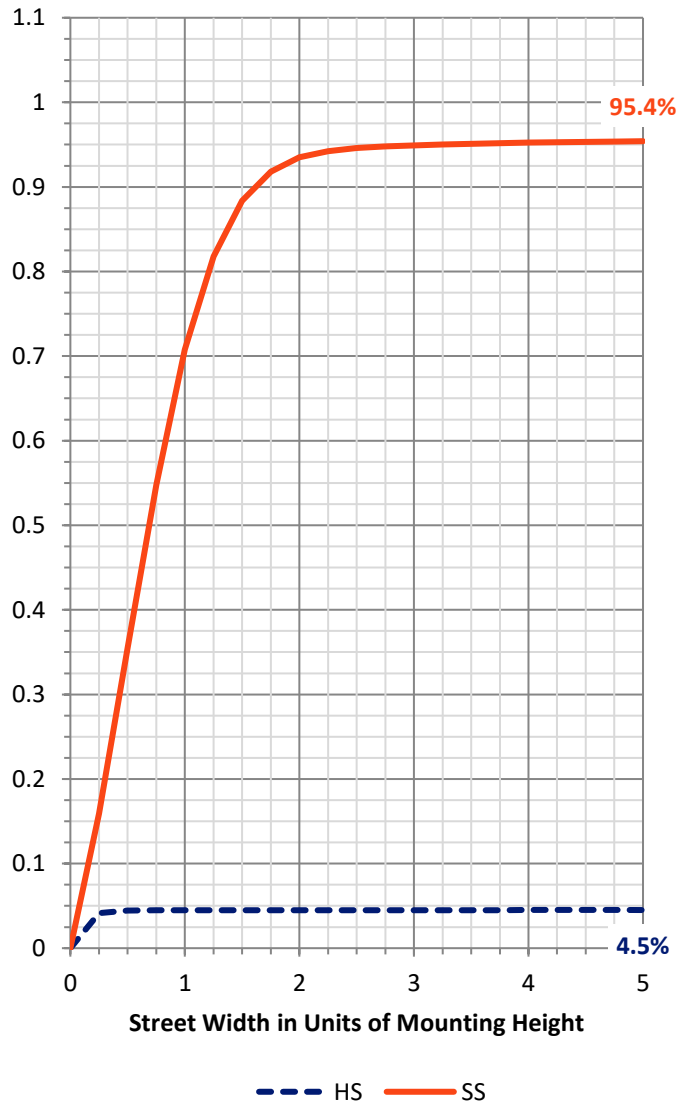
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2033.1	0.0	2033.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	42799.8	0.0	42799.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	44832.9	0.0	44832.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.5	1.1
10°-20°	1849.6	4.1
20°-30°	3584.6	8.0
30°-40°	6249.2	13.9
40°-50°	9152.6	20.4
50°-60°	10752.8	24.0
60°-70°	9079.8	20.3
70°-80°	3519.6	7.9
80°-90°	143.1	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°	44832.9	100.0
0°-180°	44832.9	100.0

Coefficient of Utilization



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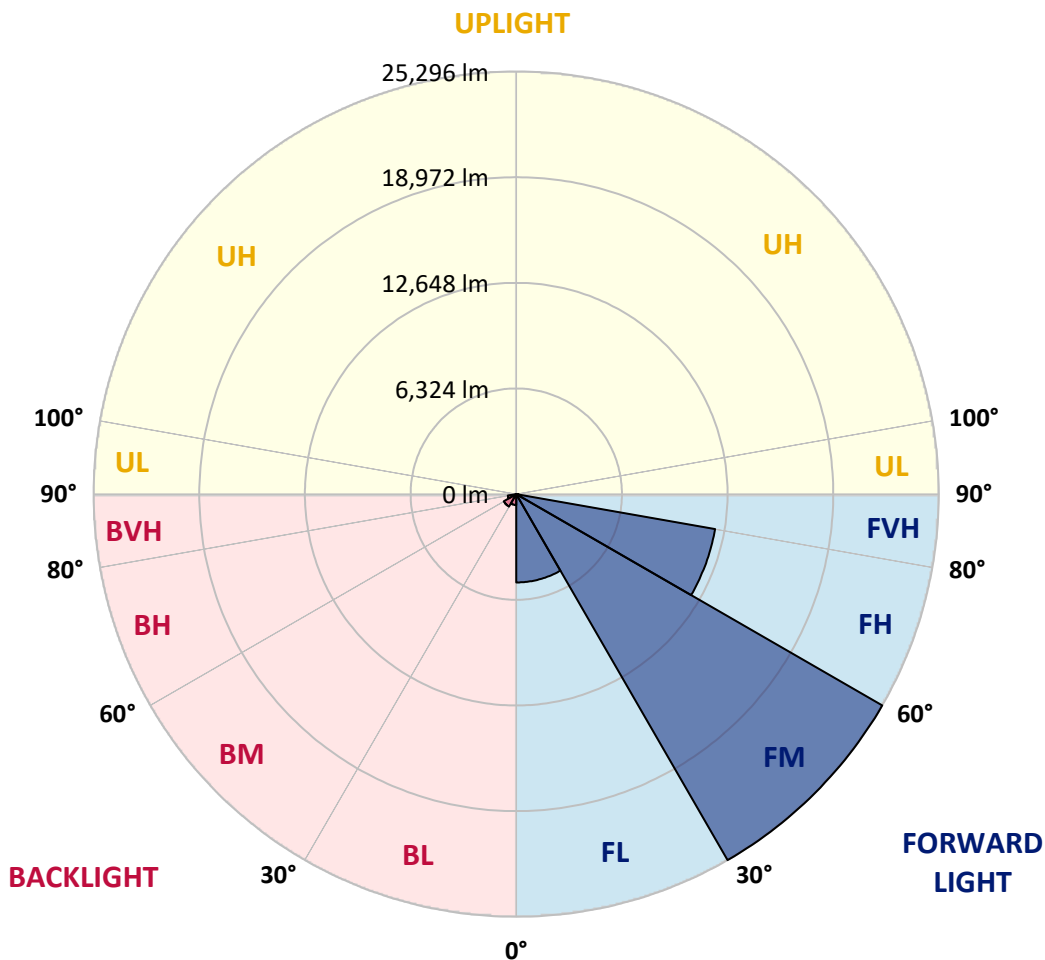
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5286.2	11.8			
FM (30°-60°)	25295.5	56.4			
FH (60°-80°)	12086.0	27.0			G5
FVH (80°-90°)	132.0	0.3			G2/225
BL (0°-30°)	649.6	1.4	B2/1000		
BM (30°-60°)	859.1	1.9	B1/1000		
BH (60°-80°)	513.4	1.1	B2/1000		G2/1000
BVH (80°-90°)	11.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8
2.5°	6522.6	6399.1	6269.4	6232.3	5991.4	5719.6	5466.4	5219.3	4805.5	4811.7	4527.5
5°	8406.5	8252.1	8147.1	8122.4	7745.6	7276.2	6893.2	6195.2	5509.6	5355.2	4836.4
7.5°	9956.9	9907.5	9753.0	9623.3	9345.4	8770.9	8320.0	7319.4	6275.5	6102.6	5213.1
10°	10895.7	10969.9	11037.8	10871.0	10654.8	10241.0	9623.3	8542.4	7146.5	6930.3	5701.1
12.5°	11896.4	11772.8	11816.1	11951.9	11667.8	11575.2	10809.3	9802.5	8165.6	7751.8	6318.8
15°	12155.8	12205.2	12310.2	12705.5	12897.0	12631.4	11970.5	10821.6	9221.8	8647.4	6893.2
17.5°	12328.7	12304.0	12433.7	13026.7	13317.0	13570.2	13156.4	11958.1	10142.2	9629.5	7609.7
20°	12544.9	12409.0	12693.2	13069.9	13743.2	14274.4	14255.9	13100.8	11105.7	10562.2	8320.0
22.5°	13347.9	13242.9	13471.4	13508.5	13977.9	14719.1	14898.2	14033.5	12094.0	11426.9	9086.0
25°	14830.3	15021.8	14750.0	14515.3	14657.4	15145.3	15275.0	14861.2	13088.5	12477.0	9851.9
27.5°	16998.3	16973.6	16436.2	16133.6	15793.9	15732.1	15824.8	15633.3	13872.9	13434.4	10481.9
30°	19327.0	19123.1	18629.0	17900.1	17152.7	16689.5	16559.8	16362.1	14793.2	14157.0	11105.7
32.5°	21180.0	21291.1	20741.4	19790.2	18548.7	17924.8	17301.0	17084.8	15806.2	15244.1	11822.2
35°	22884.7	22736.5	22298.0	21495.0	20383.2	19376.4	18400.4	17937.2	17023.0	16467.1	12612.9
37.5°	24144.8	24330.1	23496.2	22730.3	21624.7	20790.8	19833.4	18820.5	18276.9	17535.7	13576.4
40°	25336.9	25046.6	24484.5	23780.4	22755.0	22118.8	21488.8	19907.6	19611.1	18653.7	14663.5
42.5°	25126.9	25145.4	24836.6	24268.3	23527.1	23162.7	22946.5	21229.4	20821.7	20210.2	15725.9
45°	24268.3	24342.4	24447.4	24169.5	24231.3	23866.8	24447.4	22748.9	22347.4	21698.8	16948.9
47.5°	23323.3	23446.8	23422.1	23928.6	24503.0	24626.6	26078.1	24435.1	24262.1	23903.9	18641.3
50°	21754.4	21803.8	22279.4	23199.8	23984.2	25275.1	27301.1	26275.8	26541.4	25837.2	20654.9
52.5°	19073.7	19252.8	20475.8	21791.5	23372.7	25602.5	28128.8	29012.0	29685.3	28962.6	22588.3
55°	15682.7	15929.8	17134.2	19598.7	21915.0	25108.4	28882.3	30457.4	31822.5	30729.2	23761.8
57.5°	12619.0	12643.7	13724.7	16269.5	19845.8	24138.6	29265.3	31161.5	32996.0	32118.9	25194.8
60°	9617.1	9518.3	10488.1	12693.2	16362.1	21754.4	28307.9	31519.8	34459.9	33953.4	26918.1
62.5°	6189.1	6034.7	7090.9	9240.4	12779.6	17782.8	26393.1	31526.0	36745.3	36553.8	29802.7
65°	3063.7	2958.6	3866.6	5664.1	8845.1	13601.1	23663.0	31408.6	39537.2	39660.7	32613.1
67.5°	1618.3	1655.4	1945.7	2872.2	5102.0	9611.0	19549.3	30031.2	40964.0	41655.8	33292.5
68°	1488.6	1500.9	1729.5	2390.4	4428.7	8913.0	18573.4	29629.7	41075.2	41927.6	32915.7
70°	1210.6	1229.2	1309.5	1500.9	2396.6	5799.9	14330.0	26220.2	39401.3	40179.6	29796.5
72.5°	963.6	1019.2	1068.6	1148.9	1408.3	3045.1	8913.0	20432.6	32551.3	32637.8	23193.6
75°	735.0	778.3	877.1	945.0	1099.5	1673.9	4243.4	12458.4	21359.1	20309.0	13662.9
77.5°	568.3	605.3	648.6	741.2	920.3	1130.3	1297.1	5287.3	9073.6	7467.7	3860.4
80°	339.7	364.4	506.5	580.6	803.0	765.9	512.7	1470.1	1840.7	1451.5	704.1
82.5°	197.7	216.2	290.3	444.7	562.1	413.8	302.7	457.1	450.9	395.3	234.7
85°	6.2	12.4	160.6	265.6	197.7	111.2	185.3	191.5	160.6	148.2	105.0
87.5°	0.0	6.2	43.2	37.1	43.2	24.7	37.1	49.4	61.8	55.6	43.2
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°	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8	4292.8
2.5°	4336.1	4200.2	3897.5	3669.0	3421.9	3273.7	3125.4	3032.8	2983.4	2952.5	2977.2
5°	4447.2	4163.1	3675.1	3242.8	2958.6	2767.2	2575.7	2476.9	2384.2	2334.8	2365.7
7.5°	4694.3	4268.1	3459.0	2989.5	2656.0	2359.5	2118.6	1927.1	1816.0	1717.1	1735.7
10°	4997.0	4329.9	3465.1	2841.3	2359.5	1890.1	1550.4	1309.5	1173.6	1087.1	1080.9
12.5°	5305.8	4570.8	3489.8	2693.0	1995.1	1420.6	1019.2	840.0	759.7	716.5	716.5
15°	5775.2	4787.0	3428.1	2421.3	1513.3	926.5	698.0	636.2	605.3	568.3	574.4
17.5°	6182.9	5132.9	3397.2	2013.6	1037.7	667.1	580.6	512.7	481.8	444.7	444.7
20°	6732.6	5349.0	3230.4	1556.5	716.5	555.9	469.4	407.7	358.2	327.4	333.5
22.5°	7232.9	5515.8	2933.9	1062.4	549.7	438.5	345.9	284.1	240.9	203.8	210.0
25°	7776.5	5682.6	2501.6	654.7	389.1	271.8	185.3	135.9	92.7	67.9	67.9
27.5°	8165.6	5732.0	1939.5	389.1	234.7	123.5	43.2	6.2	0.0	0.0	0.0
30°	8560.9	5750.5	1340.3	210.0	92.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	9011.8	5744.3	840.0	111.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	9357.7	5639.3	401.5	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	9882.7	5484.9	123.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	10481.9	5207.0	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	11019.3	4922.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11630.8	4570.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12705.5	4422.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	14107.6	4305.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14972.4	3959.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15423.3	3601.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16090.4	3428.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	17078.6	3440.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18622.8	3613.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19475.2	3440.4	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18752.5	2754.8	117.4	30.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	18128.7	2532.5	117.4	30.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	14984.7	1649.2	111.2	30.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10914.3	914.2	92.7	24.7	12.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	6349.7	457.1	67.9	24.7	12.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1655.4	228.5	55.6	30.9	18.5	6.2	0.0	0.0	0.0	0.0	0.0
80°	327.4	148.2	49.4	37.1	24.7	12.4	0.0	0.0	0.0	0.0	0.0
82.5°	154.4	105.0	49.4	37.1	30.9	18.5	6.2	0.0	0.0	0.0	0.0
85°	80.3	49.4	49.4	37.1	37.1	24.7	12.4	0.0	0.0	0.0	0.0
87.5°	37.1	18.5	18.5	18.5	18.5	12.4	6.2	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)