

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: P481809

Luminaire Tested: **IFLD-L-SA7B-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481809
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

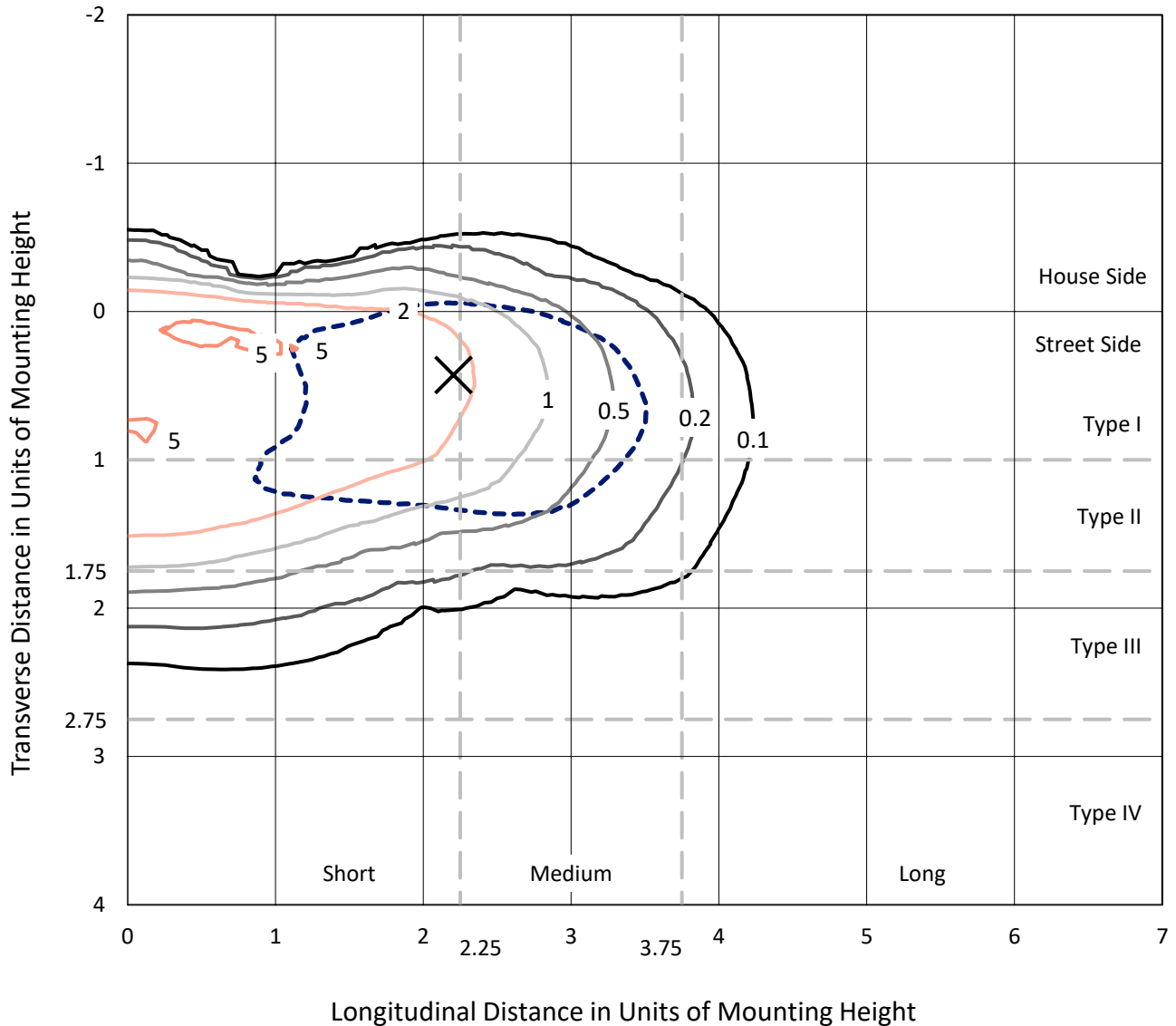
Lumens per Lamp: N/A
Luminaire Lumens: 18852.1 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 281
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

REPORT NUMBER: P481809
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

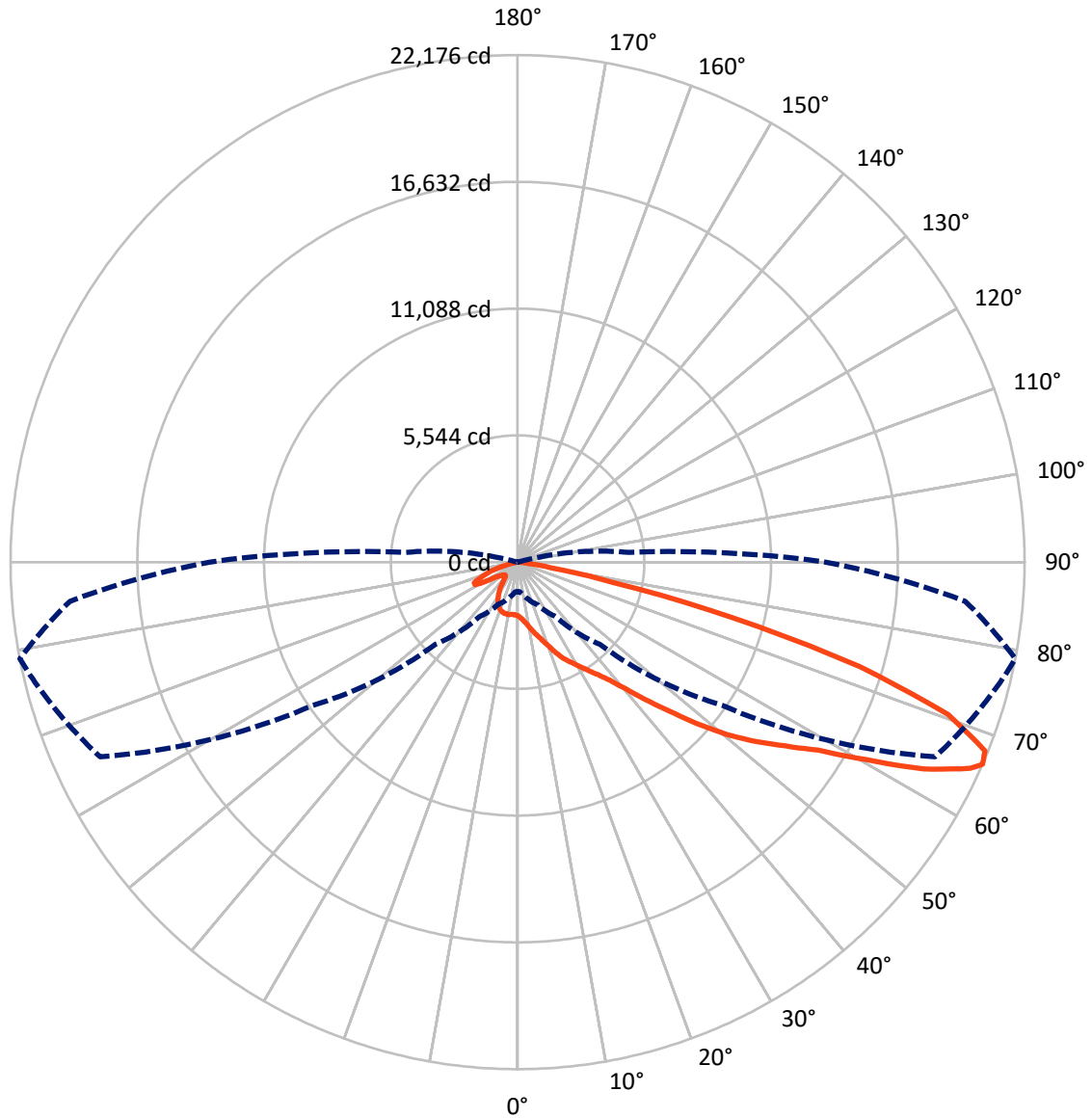
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481809
CATALOG NUMBER: IFLD-L-SA7B-827-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481809
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2-HSS

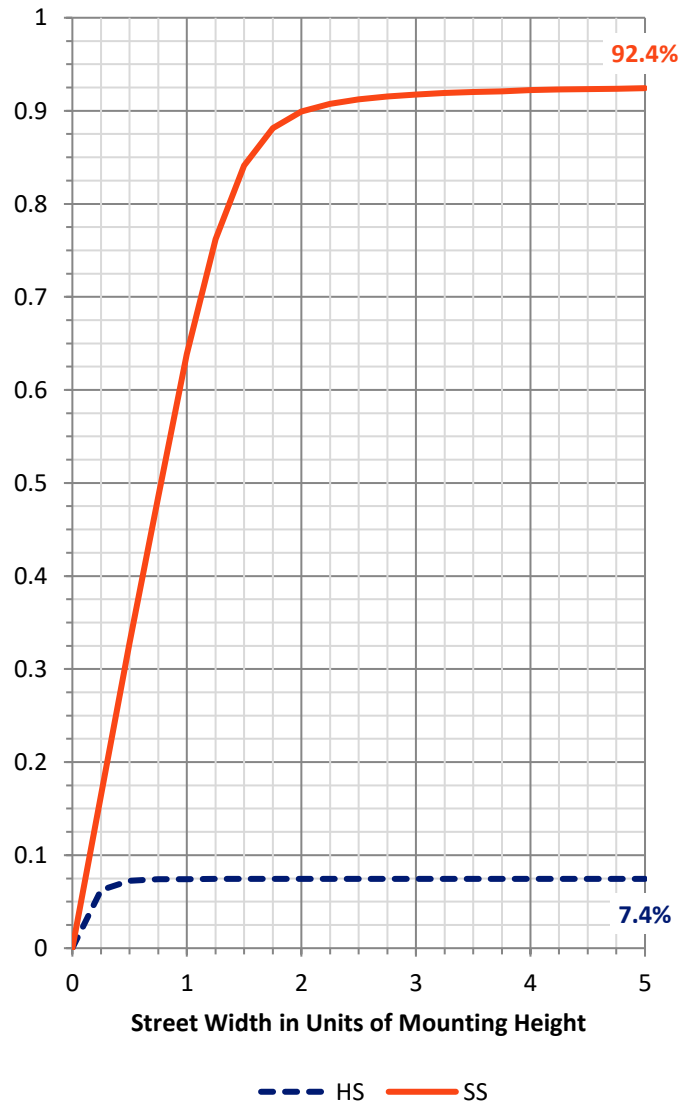
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1415.5	0.0	1415.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17436.6	0.0	17436.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	18852.1	0.0	18852.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.2
10°-20°	610.5	3.2
20°-30°	1014.1	5.4
30°-40°	1741.9	9.2
40°-50°	3155.6	16.7
50°-60°	4988.2	26.5
60°-70°	5075.8	26.9
70°-80°	1935.7	10.3
80°-90°	108.5	0.6
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°	18852.1	100.0
0°-180°	18852.1	100.0

Coefficient of Utilization



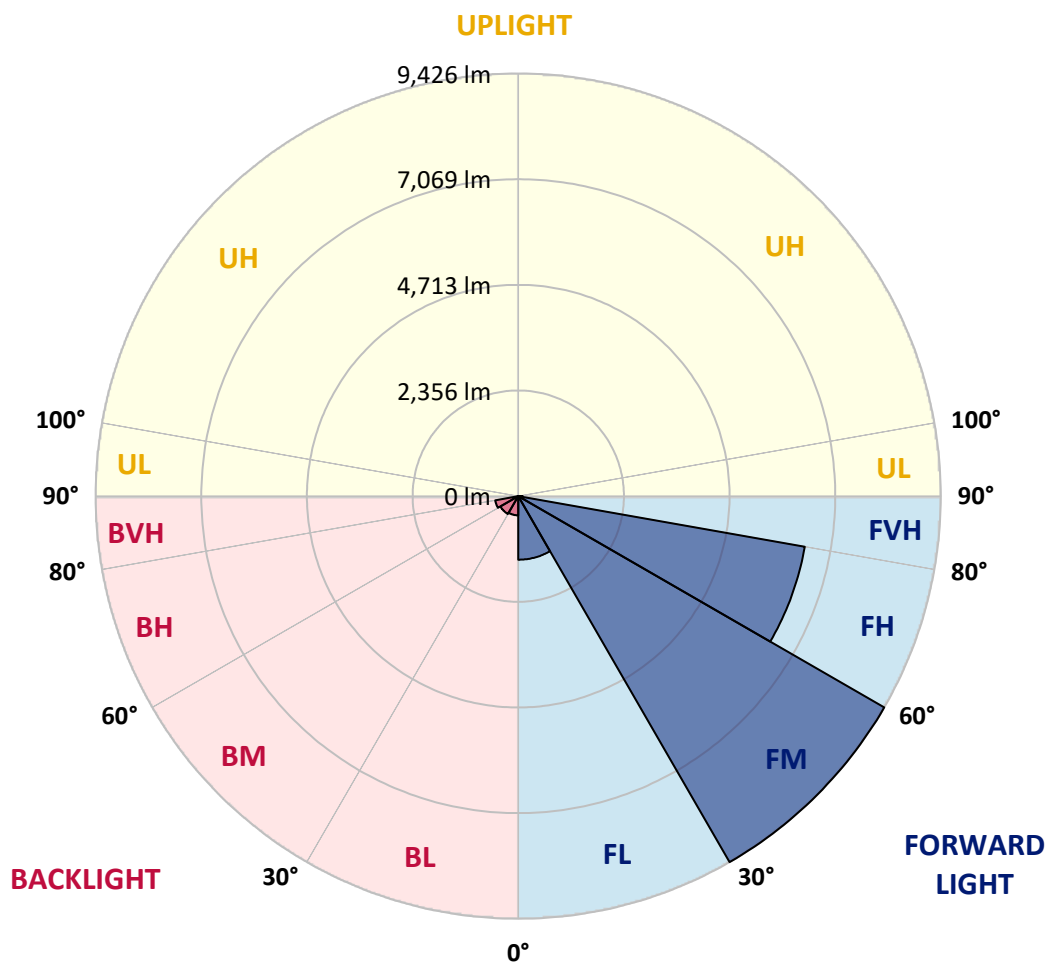
REPORT NUMBER: P481809
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.3	7.5			
FM (30°-60°)	9425.6	50.0			
FH (60°-80°)	6489.7	34.4			G3/7500
FVH (80°-90°)	103.0	0.5			G2/225
BL (0°-30°)	428.1	2.3	B1/500		
BM (30°-60°)	460.1	2.4	B1/1000		
BH (60°-80°)	521.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.5	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-G3

Type II Short





REPORT NUMBER: P481809
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4
2.5°	2656.4	2653.5	2641.9	2621.5	2595.4	2586.7	2548.9	2496.6	2467.5	2435.5	2421.0
5°	2839.5	2825.0	2859.9	2845.3	2851.1	2781.4	2734.9	2697.1	2586.7	2543.1	2473.3
7.5°	2880.2	2894.7	2891.8	2915.1	2938.3	2964.5	2932.5	2877.3	2766.8	2702.9	2627.3
10°	2880.2	2874.4	2897.6	2929.6	2996.5	3054.6	3141.8	3069.1	2984.8	2909.3	2772.7
12.5°	2827.9	2819.2	2842.4	2909.3	3028.4	3147.6	3243.5	3313.2	3194.1	3133.0	2955.8
15°	2668.0	2659.3	2755.2	2874.4	3031.3	3226.1	3426.6	3539.9	3458.6	3362.7	3165.0
17.5°	2470.4	2482.0	2583.7	2781.4	3031.3	3263.8	3519.6	3766.6	3755.0	3632.9	3426.6
20°	2403.6	2412.3	2514.0	2656.4	2941.2	3290.0	3664.9	4013.7	4083.4	3938.1	3667.8
22.5°	2531.4	2522.7	2531.4	2618.6	2880.2	3266.7	3760.8	4295.6	4420.6	4307.2	3984.6
25°	2967.4	2961.6	2888.9	2755.2	2845.3	3214.4	3810.2	4481.6	4769.3	4664.7	4240.4
27.5°	3606.8	3583.5	3470.2	3191.2	3008.1	3246.4	3891.6	4661.8	5074.5	4955.3	4470.0
30°	4292.7	4237.5	4089.2	3740.5	3429.5	3365.6	3938.1	4795.5	5414.5	5263.4	4670.5
32.5°	4766.4	4839.1	4792.6	4438.0	3961.4	3641.7	4013.7	4964.1	5728.4	5629.6	5013.5
35°	5498.8	5583.1	5388.4	5074.5	4594.9	4080.5	4173.5	5100.6	6210.9	6045.2	5333.2
37.5°	6423.0	6487.0	6347.5	5751.7	5246.0	4621.1	4501.9	5385.5	6626.5	6548.0	5743.0
40°	6888.1	7196.1	6998.5	6460.8	5917.3	5376.8	5045.4	5719.7	7350.2	7286.2	6309.7
42.5°	7530.4	7684.4	7582.7	7184.5	6617.8	6184.7	5716.8	6370.7	8227.9	8227.9	7077.0
45°	8210.4	8216.3	8210.4	7884.9	7382.1	7158.3	6623.6	7187.4	9172.5	9277.1	7995.4
47.5°	8768.5	8942.8	8928.3	8733.6	8344.1	8259.9	7530.4	8117.4	10358.2	10541.3	8890.5
50°	9056.2	9250.9	9309.0	9410.8	9393.3	9570.6	8521.4	9195.7	11381.3	11831.8	10041.5
52.5°	8977.7	8992.3	9349.7	9750.8	10390.2	10887.2	9715.9	10419.3	12578.7	13023.4	10930.8
55°	8335.4	8280.2	9015.5	9474.7	10797.1	11692.3	11369.7	11945.1	13511.6	14188.8	11849.2
57.5°	6925.8	6940.4	7620.5	8553.4	10494.8	12012.0	13136.7	13938.9	14819.5	15502.5	13139.6
60°	4781.0	4763.5	5525.0	6603.2	8719.1	11416.2	14153.9	16522.6	16569.1	17536.9	15456.0
62.5°	2688.4	2694.2	3272.6	4193.9	6100.4	9329.4	14104.5	19266.2	19068.6	19917.2	18089.1
65°	1522.9	1560.7	1958.9	2484.9	3653.3	6263.2	12131.1	20359.0	20995.5	21751.1	19687.6
66°	1287.5	1313.7	1653.7	2051.9	2915.1	5080.3	10919.2	20146.8	21600.0	22175.5	19655.7
67.5°	996.9	1031.8	1316.6	1627.6	2139.1	3516.7	8788.8	19091.8	21710.5	22047.6	19100.6
70°	683.0	706.2	924.2	1235.2	1461.9	1799.0	5254.7	15784.4	19699.3	19984.1	16601.1
72.5°	479.5	491.2	648.1	935.8	1124.8	1028.8	2607.0	11230.1	15075.3	15630.4	12912.9
75°	345.9	357.5	444.7	671.4	877.7	674.3	1194.5	7172.9	9245.1	9681.1	7777.4
77.5°	249.9	264.5	302.3	433.0	636.5	473.7	587.1	3746.3	4359.5	4284.0	3345.2
80°	151.1	165.7	223.8	279.0	465.0	334.2	322.6	1563.6	1546.2	1467.7	1052.1
82.5°	69.8	81.4	119.2	188.9	325.5	232.5	154.0	558.0	488.3	447.6	296.4
85°	20.3	26.2	69.8	142.4	165.7	113.3	93.0	191.8	200.5	171.5	98.8
87.5°	0.0	2.9	32.0	34.9	49.4	37.8	34.9	49.4	93.0	75.6	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481809
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4	2345.4
2.5°	2368.7	2348.3	2298.9	2223.4	2156.5	2121.6	2072.2	2028.6	2005.4	2002.5	1999.6
5°	2426.8	2371.6	2252.4	2115.8	2014.1	1903.7	1828.1	1772.9	1720.6	1671.2	1700.2
7.5°	2505.3	2418.1	2223.4	2046.1	1825.2	1682.8	1549.1	1470.6	1424.1	1380.5	1374.7
10°	2627.3	2516.9	2203.0	1883.3	1630.5	1421.2	1284.6	1171.3	1107.3	1031.8	1060.8
12.5°	2793.0	2595.4	2127.5	1735.1	1409.6	1188.7	994.0	810.9	709.2	630.7	633.6
15°	2958.7	2700.0	2057.7	1554.9	1209.0	918.4	633.6	508.6	479.5	462.1	467.9
17.5°	3121.4	2784.3	1950.2	1371.8	979.4	584.2	462.1	436.0	421.4	404.0	404.0
20°	3319.1	2839.5	1816.5	1203.2	674.3	433.0	395.3	377.8	354.6	331.3	334.2
22.5°	3510.9	2886.0	1662.4	988.2	453.4	374.9	331.3	308.1	287.7	264.5	264.5
25°	3702.7	2900.5	1461.9	709.2	366.2	299.4	258.7	226.7	206.4	186.0	188.9
27.5°	3833.5	2810.4	1273.0	453.4	293.5	226.7	180.2	154.0	136.6	116.3	116.3
30°	3909.0	2644.8	1069.5	319.7	220.9	154.0	107.5	81.4	63.9	49.4	46.5
32.5°	3984.6	2511.1	839.9	244.1	145.3	81.4	40.7	14.5	0.0	0.0	0.0
35°	4135.7	2360.0	563.8	136.6	49.4	2.9	0.0	0.0	0.0	0.0	0.0
37.5°	4231.7	2150.7	258.7	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4472.9	2046.1	63.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4865.2	1973.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5295.4	1944.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5867.9	2022.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6472.4	2235.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7135.1	2435.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7713.5	2676.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8777.2	3246.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10686.7	4365.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12837.4	5196.6	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13625.0	5176.2	55.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13485.5	4891.4	55.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12761.8	4345.0	49.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10959.9	3589.3	49.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8355.8	2795.9	46.5	11.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	5042.5	1488.1	37.8	14.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2008.3	523.1	29.1	11.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	543.5	156.9	17.4	11.6	8.7	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	142.4	58.1	14.5	11.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
85°	55.2	23.3	11.6	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0
87.5°	17.4	8.7	8.7	5.8	5.8	2.9	2.9	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)