

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: P483765

Luminaire Tested: **IFLD-L-SA8C-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483765
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

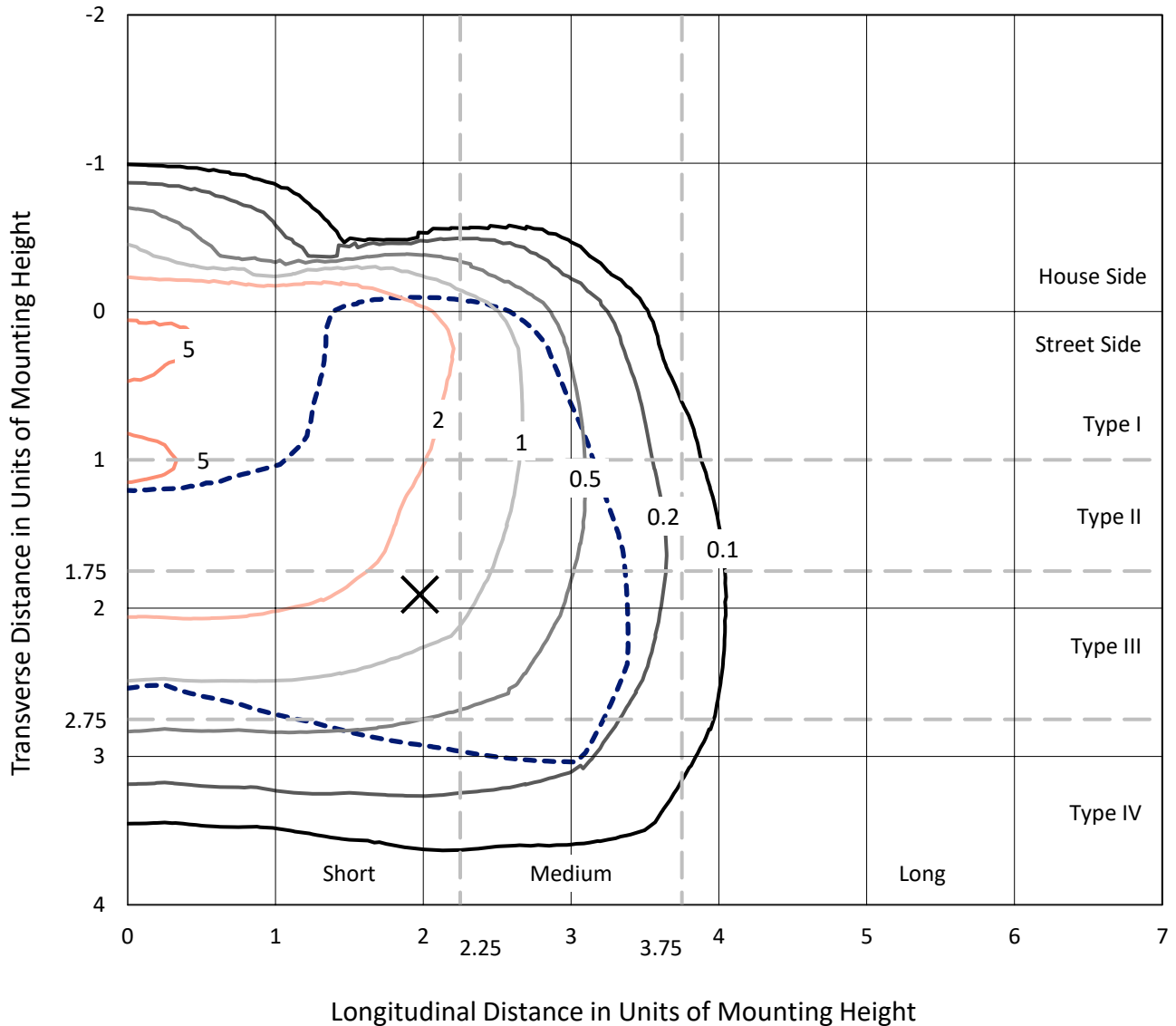
Lumens per Lamp: N/A
Luminaire Lumens: 27479.3 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 420.3
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

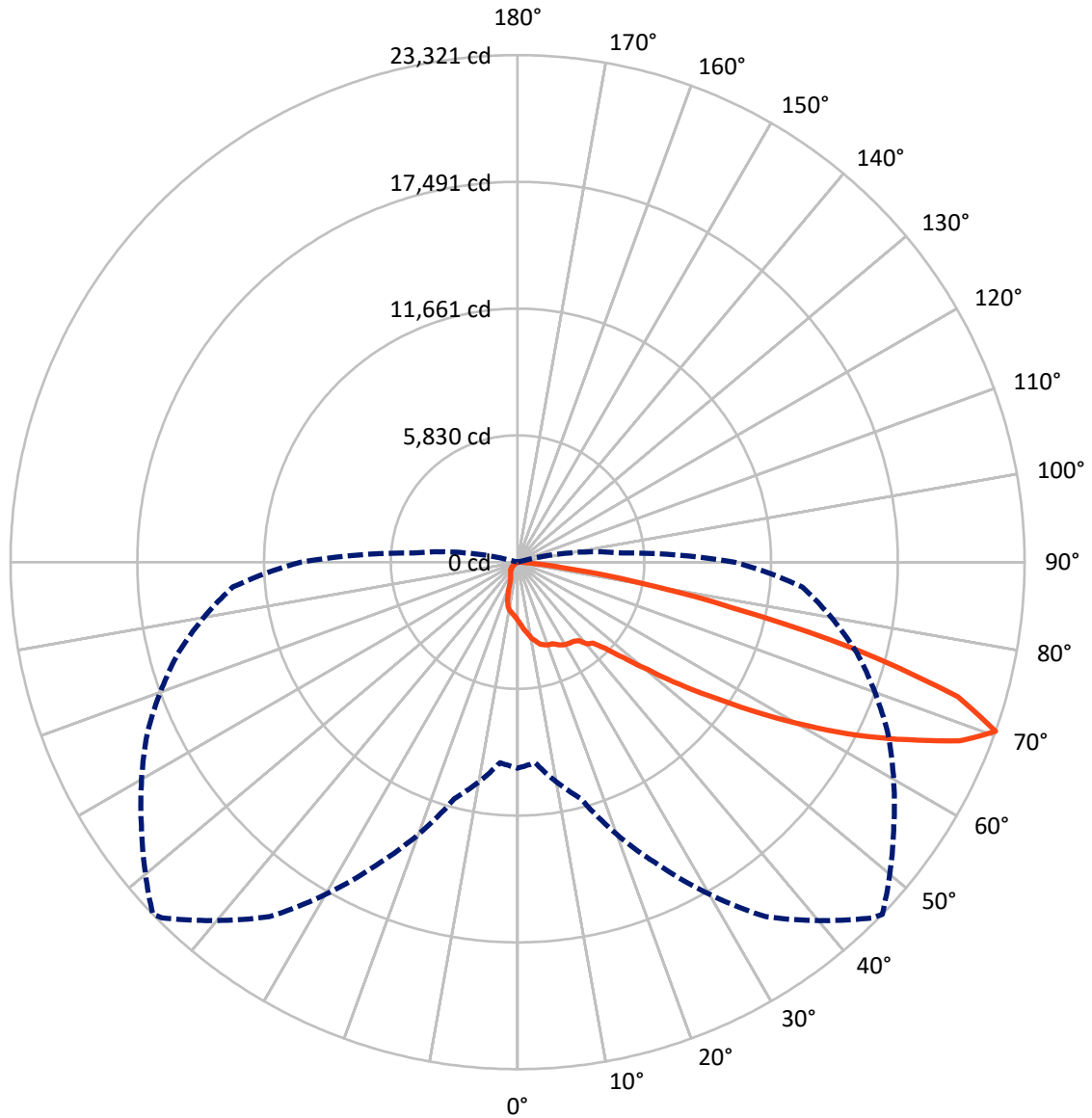
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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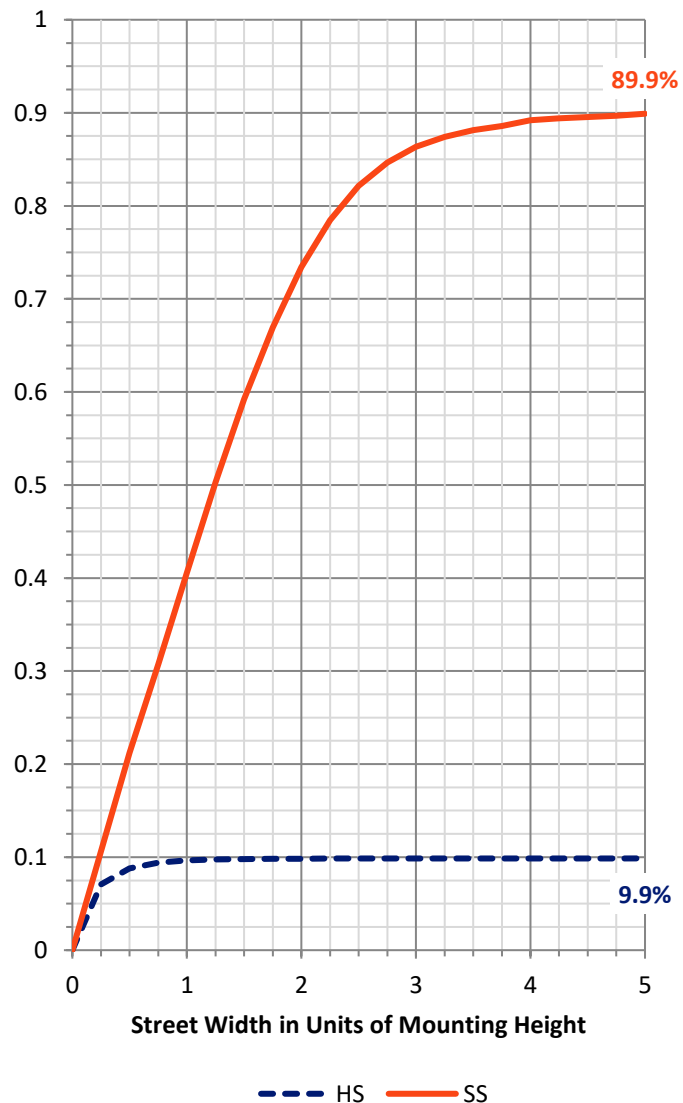
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2734.3	0.0	2734.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	24745.0	0.0	24745.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	27479.3	0.0	27479.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	1.0
10°-20°	812.3	3.0
20°-30°	1301.1	4.7
30°-40°	1857.2	6.8
40°-50°	3206.9	11.7
50°-60°	6139.8	22.3
60°-70°	9092.1	33.1
70°-80°	4503.2	16.4
80°-90°	297.6	1.1
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°	27479.3	100.0
0°-180°	27479.3	100.0

Coefficient of Utilization

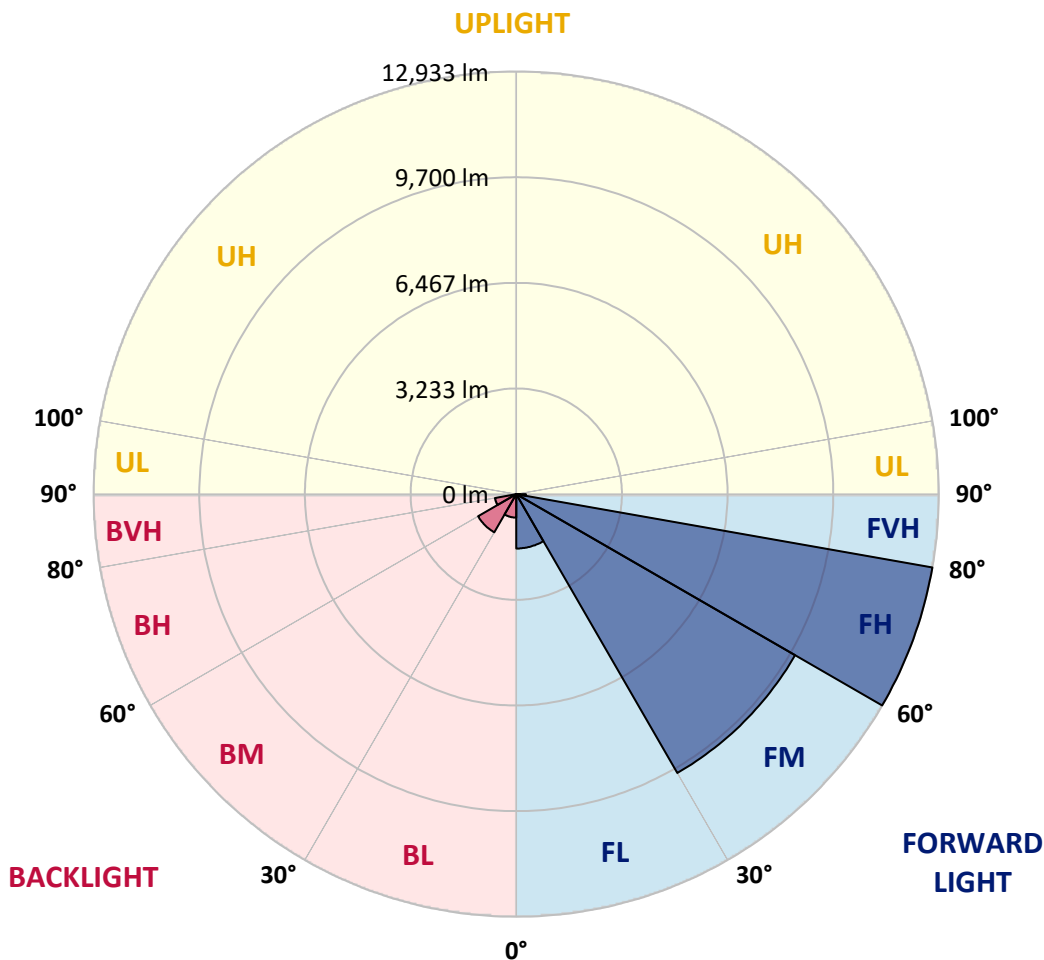


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.1	6.1			
FM (30°-60°)	9854.0	35.9			
FH (60°-80°)	12933.2	47.1			G5
FVH (80°-90°)	293.8	1.1			G3/500
BL (0°-30°)	718.3	2.6	B2/1000		
BM (30°-60°)	1349.9	4.9	B2/2500		
BH (60°-80°)	662.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6
2.5°	3010.1	2990.3	2958.7	2946.8	2915.2	2899.3	2875.6	2863.7	2820.2	2776.7	2749.0
5°	3377.9	3330.5	3346.3	3298.8	3196.0	3112.9	3109.0	3018.0	2919.1	2840.0	2733.2
7.5°	3749.8	3710.2	3650.9	3583.6	3468.9	3346.3	3310.7	3223.7	3085.2	2946.8	2804.4
10°	4030.6	4002.9	3951.5	3856.6	3698.3	3559.9	3563.9	3417.5	3271.1	3112.9	2919.1
12.5°	4204.6	4216.5	4141.3	4046.4	3908.0	3733.9	3730.0	3631.1	3465.0	3298.8	3069.4
15°	4378.7	4422.2	4307.5	4196.7	4018.7	3892.2	3915.9	3797.2	3635.0	3445.2	3192.0
17.5°	4406.4	4418.2	4394.5	4232.3	4101.8	3995.0	3998.9	3919.8	3797.2	3591.5	3374.0
20°	4358.9	4351.0	4323.3	4204.6	4117.6	4054.3	4058.3	4038.5	3971.3	3805.1	3508.5
22.5°	4220.5	4220.5	4184.9	4105.7	4066.2	4125.5	4078.1	4153.2	4082.0	3983.1	3737.9
25°	4109.7	4153.2	4133.4	4082.0	4097.8	4176.9	4200.7	4271.9	4260.0	4137.4	3896.1
27.5°	4228.4	4176.9	4188.8	4129.5	4188.8	4307.5	4319.3	4370.8	4366.8	4267.9	4038.5
30°	4307.5	4354.9	4264.0	4133.4	4196.7	4398.4	4390.5	4457.8	4489.4	4370.8	4173.0
32.5°	4560.6	4521.1	4445.9	4271.9	4279.8	4394.5	4430.1	4517.1	4536.9	4465.7	4303.5
35°	5078.8	5019.5	4691.2	4430.1	4390.5	4445.9	4469.6	4639.7	4675.3	4596.2	4442.0
37.5°	5877.8	5743.3	5347.8	4770.3	4592.3	4580.4	4580.4	4805.9	4940.3	4758.4	4647.6
40°	7020.9	6831.0	6403.9	5399.2	4857.3	4904.7	4952.2	5074.8	5059.0	4940.3	4916.6
42.5°	8476.5	8330.2	7867.4	6455.3	5363.6	5126.2	5086.7	5252.8	5502.0	5454.6	5438.7
45°	9690.8	9698.7	9402.1	7903.0	6237.7	5636.5	5664.2	5790.8	6210.0	6174.4	6170.5
47.5°	10576.8	10466.1	10422.6	9299.2	7511.4	6605.6	6566.0	6653.0	7198.9	7424.4	7527.2
50°	11383.8	11308.6	11205.8	10656.0	9042.1	7819.9	7780.3	7788.3	8622.9	8939.3	9192.4
52.5°	12384.5	12479.4	12139.2	11803.0	11023.8	9398.1	9354.6	9200.4	10236.7	10671.8	10972.4
55°	13618.6	13440.6	13056.9	13230.9	12918.5	11102.9	11023.8	10841.9	12076.0	12257.9	12574.3
57.5°	13891.5	13757.0	14152.6	14769.6	15070.2	13104.4	13072.7	12744.4	13622.5	13456.4	14350.3
60°	14571.8	14607.4	15157.2	16383.4	16905.5	15414.3	15260.1	14682.6	15121.6	15153.3	16106.5
62.5°	15272.0	15188.9	16419.0	17597.7	18400.7	17601.7	17550.3	16403.2	16901.6	16498.1	17759.9
65°	14757.7	14884.3	16644.5	18618.3	20338.9	19741.6	19698.1	18060.5	18333.5	17831.1	18432.3
67.5°	12930.3	12673.2	15137.5	18151.5	21335.6	21984.3	21936.9	19868.2	19140.4	17823.2	17036.1
70°	9477.2	9255.7	11265.1	15370.8	19907.7	23131.4	23321.3	21126.0	18812.1	16161.9	13143.9
72.5°	4643.7	4647.6	6312.9	10422.6	15750.6	21082.5	21177.4	19369.8	16161.9	11913.8	7444.1
75°	1372.5	1388.4	2337.7	5110.4	10181.3	16011.6	16118.4	14702.4	11201.8	6154.7	2539.4
77.5°	502.3	502.3	775.3	1918.4	5078.8	10106.1	10098.2	9026.3	5672.1	2084.5	593.3
80°	261.1	272.9	403.5	783.2	2199.2	5264.7	5462.5	4418.2	2155.7	878.1	174.0
82.5°	106.8	118.7	221.5	403.5	1056.1	1847.2	2021.2	1732.5	937.4	613.1	79.1
85°	31.6	35.6	106.8	225.5	415.3	462.8	514.2	581.4	589.4	474.7	35.6
87.5°	4.0	4.0	43.5	75.2	91.0	98.9	114.7	114.7	300.6	332.3	19.8
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°	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6	2697.6
2.5°	2717.4	2697.6	2666.0	2594.8	2578.9	2527.5	2523.6	2476.1	2491.9	2460.3	2448.4
5°	2697.6	2654.1	2567.1	2511.7	2456.3	2420.7	2397.0	2377.2	2373.3	2357.4	2349.5
7.5°	2733.2	2673.9	2539.4	2452.4	2357.4	2325.8	2274.4	2270.4	2242.7	2215.0	2215.0
10°	2851.9	2745.1	2598.7	2452.4	2329.8	2226.9	2108.2	2021.2	1989.6	1918.4	1926.3
12.5°	2946.8	2851.9	2638.3	2488.0	2302.1	2068.7	1807.6	1605.9	1511.0	1420.0	1455.6
15°	3081.3	2942.8	2713.4	2495.9	2195.3	1791.8	1364.6	1139.2	1052.1	1032.4	1028.4
17.5°	3227.6	3081.3	2808.4	2476.1	1977.7	1384.4	1004.7	874.2	890.0	913.7	909.8
20°	3389.8	3211.8	2879.6	2408.9	1633.6	1004.7	822.7	818.8	842.5	878.1	886.0
22.5°	3559.9	3405.6	2966.6	2207.1	1218.3	806.9	791.1	791.1	806.9	850.4	842.5
25°	3749.8	3544.1	3010.1	1894.7	874.2	743.6	751.5	767.4	775.3	810.9	814.8
27.5°	3896.1	3698.3	3022.0	1518.9	712.0	688.2	708.0	727.8	739.7	767.4	779.2
30°	4030.6	3892.2	2958.7	1131.3	652.6	640.8	648.7	676.4	700.1	723.8	723.8
32.5°	4200.7	4002.9	2812.3	803.0	617.0	597.3	593.3	605.2	632.9	660.6	660.6
35°	4374.7	4188.8	2578.9	644.7	585.4	557.7	541.9	530.0	541.9	561.7	577.5
37.5°	4627.9	4469.6	2286.2	593.3	561.7	522.1	490.5	462.8	443.0	439.1	450.9
40°	4987.8	4786.1	1910.5	557.7	534.0	486.5	439.1	391.6	348.1	320.4	324.3
42.5°	5533.7	5252.8	1503.1	537.9	514.2	447.0	379.7	312.5	257.1	229.4	229.4
45°	6312.9	5869.9	1103.6	518.2	490.5	399.5	312.5	233.4	178.0	162.2	166.1
47.5°	7487.6	6613.5	791.1	486.5	458.8	348.1	245.2	166.1	130.5	122.6	126.6
50°	9022.4	7495.6	617.0	450.9	419.3	292.7	182.0	122.6	102.8	98.9	102.8
52.5°	10632.2	8385.5	541.9	419.3	359.9	233.4	134.5	98.9	87.0	83.1	87.0
55°	12008.7	8959.1	470.7	371.8	288.7	174.0	106.8	87.0	75.2	63.3	63.3
57.5°	13401.0	9247.8	371.8	308.5	213.6	130.5	91.0	75.2	63.3	51.4	47.5
60°	14532.3	9453.5	265.0	229.4	150.3	102.8	79.1	67.2	51.4	39.6	35.6
62.5°	15275.9	8864.1	193.8	174.0	110.8	87.0	67.2	55.4	39.6	27.7	27.7
65°	14908.0	8049.3	150.3	122.6	83.1	67.2	55.4	39.6	27.7	15.8	11.9
67.5°	13377.3	6558.1	122.6	91.0	63.3	51.4	43.5	31.6	15.8	4.0	4.0
70°	9979.6	4805.9	98.9	67.2	51.4	39.6	31.6	19.8	7.9	4.0	0.0
72.5°	5458.5	2630.4	79.1	55.4	39.6	31.6	23.7	15.8	7.9	0.0	0.0
75°	1803.7	700.1	59.3	39.6	23.7	19.8	15.8	11.9	4.0	0.0	0.0
77.5°	435.1	182.0	47.5	35.6	19.8	11.9	7.9	4.0	4.0	0.0	0.0
80°	134.5	75.2	35.6	23.7	15.8	11.9	4.0	0.0	0.0	0.0	0.0
82.5°	55.4	35.6	15.8	15.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0
85°	27.7	19.8	11.9	7.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	7.9	4.0	4.0	0.0	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)