

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: P481007

Luminaire Tested: **IFLD-S-SA3E-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481007
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

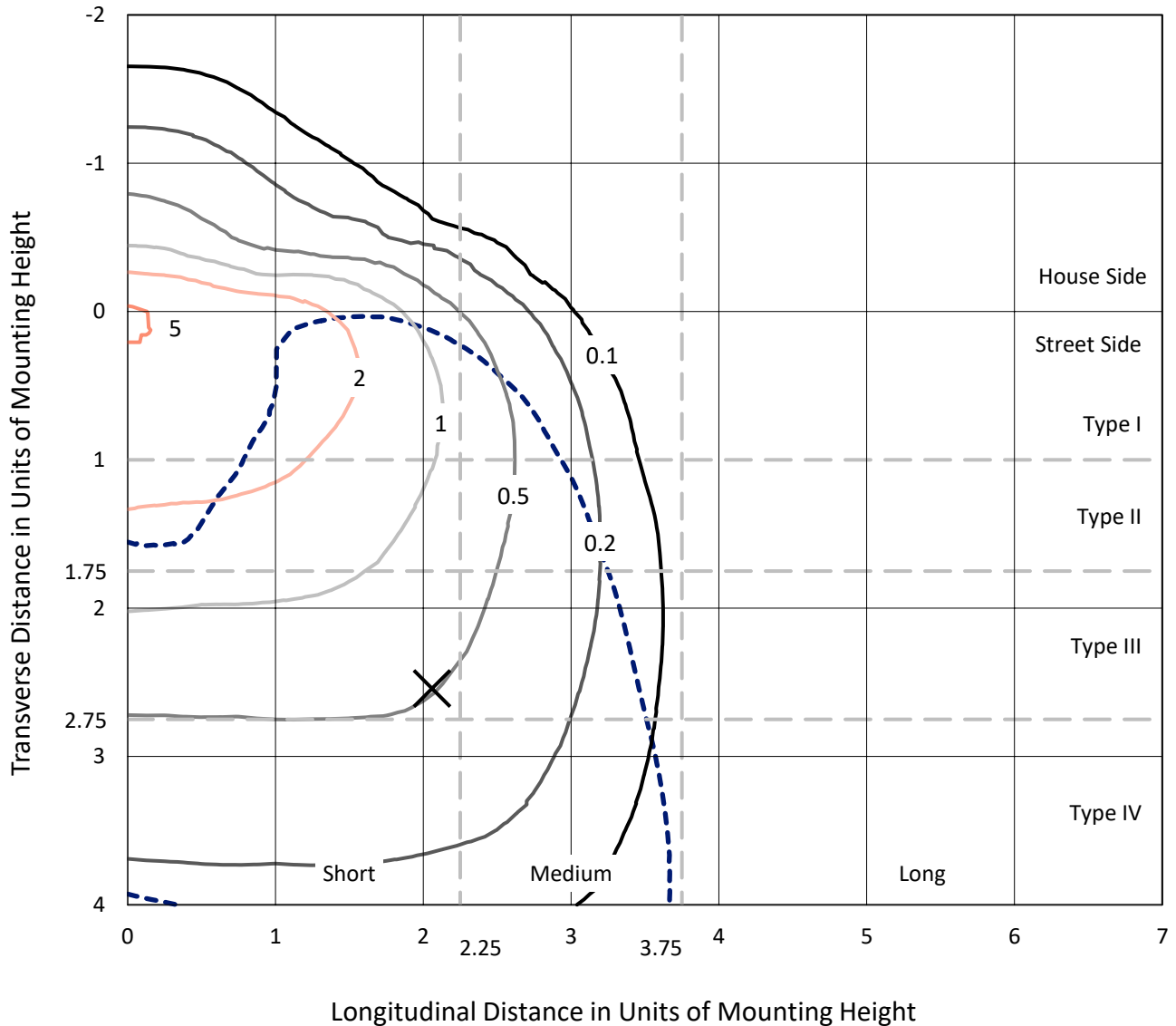
Lumens per Lamp: N/A
Luminaire Lumens: 19179.3 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 232.1
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: P481007
 CATALOG NUMBER: IFLD-S-SA3E-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

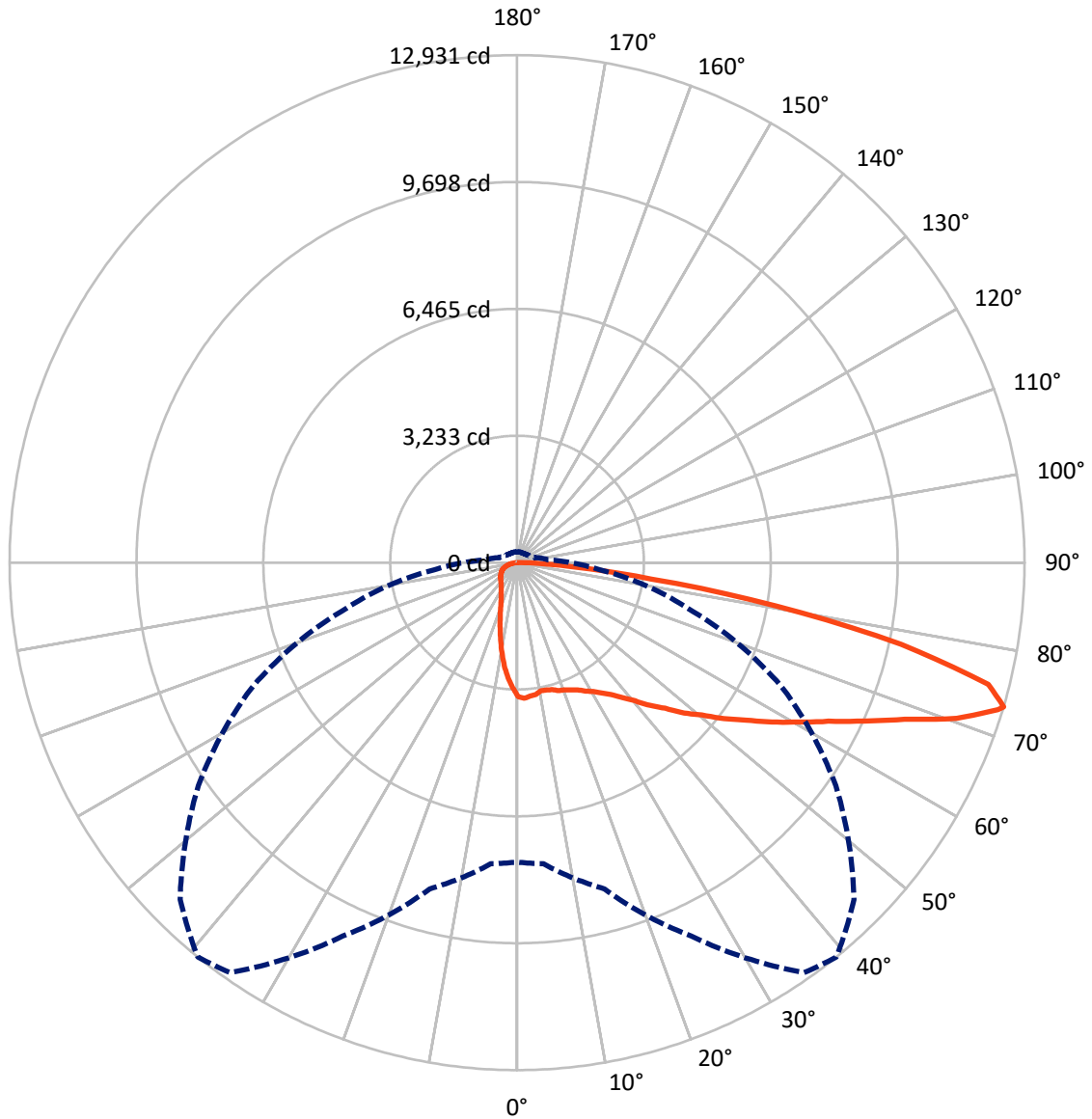
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P481007
CATALOG NUMBER: IFLD-S-SA3E-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2696.1	0.0	2696.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16483.3	0.0	16483.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	19179.3	0.0	19179.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	1.5
10°-20°	753.4	3.9
20°-30°	1151.3	6.0
30°-40°	1678.6	8.8
40°-50°	2536.5	13.2
50°-60°	3673.1	19.2
60°-70°	4666.8	24.3
70°-80°	3783.2	19.7
80°-90°	640.1	3.3
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°	19179.3	100.0
0°-180°	19179.3	100.0

Coefficient of Utilization



REPORT NUMBER: P481007

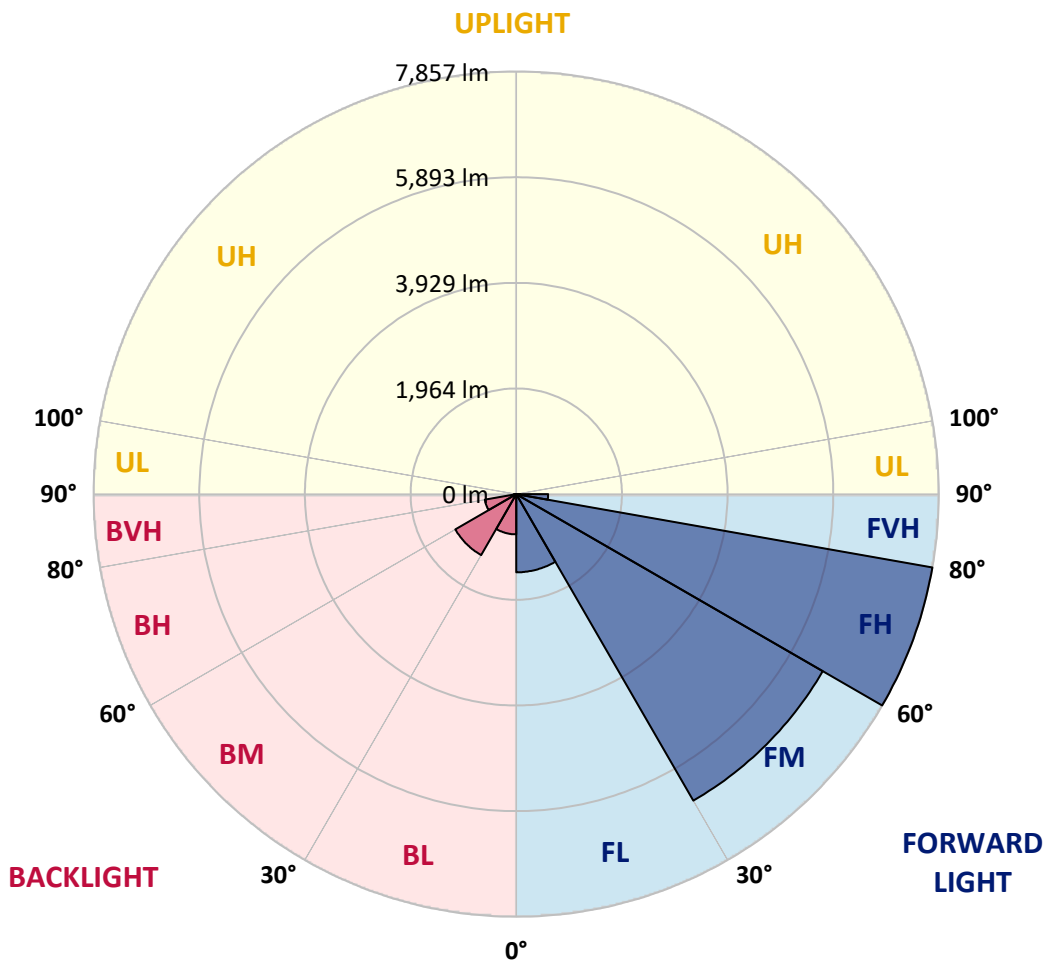
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.4	7.6			
FM (30°-60°)	6579.7	34.3			
FH (60°-80°)	7857.0	41.0			G4/12000
FVH (80°-90°)	593.1	3.1			G4/750
BL (0°-30°)	747.7	3.9	B2/1000		
BM (30°-60°)	1308.5	6.8	B2/2500		
BH (60°-80°)	593.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	47.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P481007

CATALOG NUMBER: IFLD-S-SA3E-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0
2.5°	3495.6	3459.1	3465.5	3452.7	3465.5	3461.2	3454.8	3422.6	3454.8	3422.6	3414.0
5°	3448.4	3448.4	3469.8	3437.6	3441.9	3420.5	3441.9	3418.3	3396.9	3343.2	3328.2
7.5°	3433.4	3431.2	3433.4	3388.3	3409.7	3396.9	3375.4	3349.7	3306.7	3272.4	3223.1
10°	3330.3	3351.8	3328.2	3341.1	3358.2	3319.6	3317.5	3311.0	3291.7	3246.7	3216.6
12.5°	3274.6	3311.0	3323.9	3313.2	3328.2	3332.5	3319.6	3311.0	3287.4	3257.4	3171.6
15°	3298.2	3255.2	3291.7	3362.5	3347.5	3358.2	3360.4	3351.8	3341.1	3285.3	3229.5
17.5°	3304.6	3278.8	3356.1	3371.1	3390.4	3429.1	3403.3	3401.2	3360.4	3321.8	3240.2
20°	3319.6	3308.9	3371.1	3450.5	3452.7	3459.1	3472.0	3439.8	3418.3	3351.8	3227.3
22.5°	3375.4	3411.9	3469.8	3504.2	3523.5	3527.8	3527.8	3463.4	3439.8	3386.1	3287.4
25°	3542.8	3504.2	3585.7	3626.5	3598.6	3592.1	3577.1	3519.2	3493.4	3446.2	3315.3
27.5°	3665.1	3663.0	3710.2	3766.0	3690.9	3705.9	3652.2	3635.1	3577.1	3551.4	3364.7
30°	3832.5	3879.7	3877.5	3894.7	3796.0	3813.2	3744.5	3712.3	3680.1	3695.1	3510.6
32.5°	4047.1	4029.9	4057.8	4044.9	3946.2	3961.2	3879.7	3830.3	3841.1	3886.1	3710.2
35°	4184.4	4167.2	4178.0	4178.0	4147.9	4130.7	4096.4	4032.0	4083.5	4167.2	3933.3
37.5°	4332.5	4353.9	4416.1	4403.3	4364.6	4364.6	4360.4	4315.3	4381.8	4587.8	4289.5
40°	4463.4	4521.3	4559.9	4585.7	4630.7	4630.7	4667.2	4641.5	4761.6	5092.1	4725.1
42.5°	4600.7	4602.8	4813.1	4832.4	4933.3	4976.2	5004.1	5025.6	5250.9	5620.0	5190.8
45°	4776.6	4787.4	4971.9	5120.0	5276.6	5291.7	5396.8	5467.6	5744.4	6197.2	5697.2
47.5°	5008.4	4995.5	5192.9	5429.0	5624.3	5727.3	5853.9	5931.1	6272.3	6823.8	6250.8
50°	5313.1	5274.5	5388.2	5759.4	5989.1	6102.8	6328.1	6456.8	6856.0	7422.5	6630.7
52.5°	5684.3	5620.0	5710.1	6115.7	6373.2	6602.8	6817.3	6961.1	7377.4	7886.0	6911.8
55°	6077.0	5944.0	5969.7	6493.3	6864.6	7081.3	7375.3	7525.5	7950.4	8302.3	7192.9
57.5°	6465.4	6381.7	6330.2	6856.0	7450.4	7658.5	7928.9	8124.2	8484.7	8671.4	7431.1
60°	6791.6	6770.1	6686.4	7418.2	8070.5	8248.6	8531.9	8652.0	8924.6	9012.5	7435.3
62.5°	7059.8	6986.9	7119.9	7871.0	8701.4	8903.1	9214.3	9225.0	9418.1	9225.0	7216.5
65°	7270.1	7274.4	7486.8	8418.1	9431.0	9729.3	9980.3	9952.4	9828.0	9098.4	6699.3
67.5°	7461.1	7542.6	7853.8	9019.0	10368.7	10649.8	10928.8	10559.7	9939.5	8506.1	5688.6
70°	7611.3	7692.9	8349.5	9750.7	11473.8	11885.8	11948.1	10800.0	9426.7	7205.7	4291.7
72.5°	7594.1	7742.2	8630.6	10334.4	12454.5	12810.7	12308.6	10124.1	7853.8	5023.4	2504.2
73°	7630.6	7703.6	8607.0	10497.5	12752.7	12930.9	12141.2	9911.7	7407.5	4506.3	2117.9
75°	6926.8	7173.6	8180.0	10231.4	12433.0	12400.8	11179.8	8259.4	5265.9	2366.9	1025.7
77.5°	5124.3	5280.9	6446.1	8413.9	10205.6	9999.6	8433.2	5278.8	2499.9	877.7	553.6
80°	2504.2	2626.5	3416.2	4858.2	6673.6	6690.7	5233.7	2746.7	1070.8	495.7	377.7
82.5°	1251.0	1324.0	1641.6	2135.1	3283.1	3439.8	2654.4	1562.2	663.1	281.1	214.6
85°	817.6	869.1	1010.7	1045.0	1392.7	1469.9	1236.0	1218.8	431.3	152.4	173.8
87.5°	542.9	551.5	620.1	527.9	557.9	536.5	596.5	768.2	126.6	64.4	47.2
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: P481007
 CATALOG NUMBER: IFLD-S-SA3E-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0	3414.0
2.5°	3403.3	3373.3	3341.1	3296.0	3263.8	3214.5	3169.4	3150.1	3145.8	3148.0	3126.5
5°	3315.3	3272.4	3208.0	3115.8	3062.1	2980.6	2911.9	2875.4	2836.8	2843.2	2826.1
7.5°	3193.0	3145.8	3047.1	2939.8	2806.8	2690.9	2626.5	2536.4	2484.9	2446.3	2467.7
10°	3154.4	3072.8	2924.8	2776.7	2570.7	2418.4	2270.3	2167.3	2096.5	2027.8	2057.9
12.5°	3135.1	3053.5	2847.5	2628.7	2362.6	2130.8	1922.7	1796.1	1695.2	1635.1	1658.7
15°	3117.9	3017.1	2774.6	2465.6	2167.3	1862.6	1628.7	1461.3	1364.8	1306.8	1313.3
17.5°	3141.5	2997.7	2667.3	2306.8	1952.7	1626.5	1366.9	1193.1	1094.4	1057.9	1049.3
20°	3117.9	2976.3	2562.1	2148.0	1738.1	1401.2	1152.3	1008.5	939.9	909.8	903.4
22.5°	3126.5	2924.8	2452.7	1972.0	1538.6	1212.4	1008.5	899.1	845.5	830.4	834.7
25°	3167.3	2894.7	2343.3	1778.9	1341.2	1072.9	916.3	832.6	794.0	778.9	783.2
27.5°	3197.3	2920.5	2244.6	1596.5	1173.8	948.5	839.0	783.2	757.5	746.8	744.6
30°	3272.4	2935.5	2148.0	1433.4	1036.4	866.9	785.4	740.3	723.1	716.7	714.6
32.5°	3384.0	2963.4	2036.4	1283.2	935.6	789.7	742.5	703.8	699.5	693.1	695.3
35°	3566.4	3060.0	1911.9	1154.5	839.0	738.2	697.4	671.6	671.6	671.6	678.1
37.5°	3828.2	3195.2	1800.4	1032.2	776.8	693.1	658.8	650.2	645.9	652.3	656.6
40°	4165.1	3358.2	1710.2	935.6	723.1	663.1	633.0	628.7	626.6	624.4	628.7
42.5°	4534.2	3566.4	1633.0	860.5	684.5	630.9	609.4	605.1	596.5	600.8	607.3
45°	4901.1	3823.9	1564.3	800.4	658.8	613.7	583.7	581.5	577.2	575.1	585.8
47.5°	5308.8	4077.1	1542.9	763.9	639.5	588.0	566.5	564.4	551.5	549.3	557.9
50°	5626.4	4263.8	1566.5	746.8	611.6	568.6	553.6	542.9	532.2	521.4	521.4
52.5°	5845.3	4392.5	1583.6	733.9	596.5	542.9	523.6	519.3	508.6	497.8	493.5
55°	6042.7	4469.8	1587.9	736.0	581.5	512.9	500.0	497.8	491.4	474.2	469.9
57.5°	6109.2	4437.6	1502.1	716.7	572.9	493.5	476.4	480.7	472.1	457.1	454.9
60°	6102.8	4214.4	1306.8	691.0	553.6	472.1	450.6	463.5	463.5	446.3	444.2
62.5°	5731.5	3699.4	1068.6	641.6	532.2	450.6	427.0	446.3	452.8	442.0	439.9
65°	4961.2	3012.8	892.7	592.3	500.0	427.0	403.4	424.9	435.6	431.3	429.2
67.5°	4105.0	2304.6	742.5	527.9	459.2	394.8	375.5	390.5	397.0	399.1	401.3
70°	2901.2	1534.3	620.1	457.1	403.4	360.5	339.0	341.2	339.0	345.5	345.5
72.5°	1577.2	884.1	504.3	388.4	347.6	313.3	298.3	287.5	287.5	285.4	285.4
73°	1349.7	794.0	480.7	377.7	332.6	304.7	287.5	279.0	279.0	276.8	274.7
75°	757.5	581.5	412.0	324.0	287.5	266.1	253.2	240.3	238.2	238.2	238.2
77.5°	497.8	452.8	328.3	259.6	231.8	212.4	208.1	195.3	195.3	195.3	193.1
80°	373.4	356.2	253.2	197.4	178.1	163.1	158.8	150.2	148.1	139.5	141.6
82.5°	248.9	281.1	184.5	139.5	120.2	111.6	111.6	109.4	103.0	92.3	92.3
85°	197.4	229.6	133.0	85.8	70.8	60.1	62.2	60.1	57.9	47.2	45.1
87.5°	36.5	92.3	38.6	23.6	17.2	10.7	10.7	6.4	4.3	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)