

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: P481025

Luminaire Tested: **IFLD-M-SA4C-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481025
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

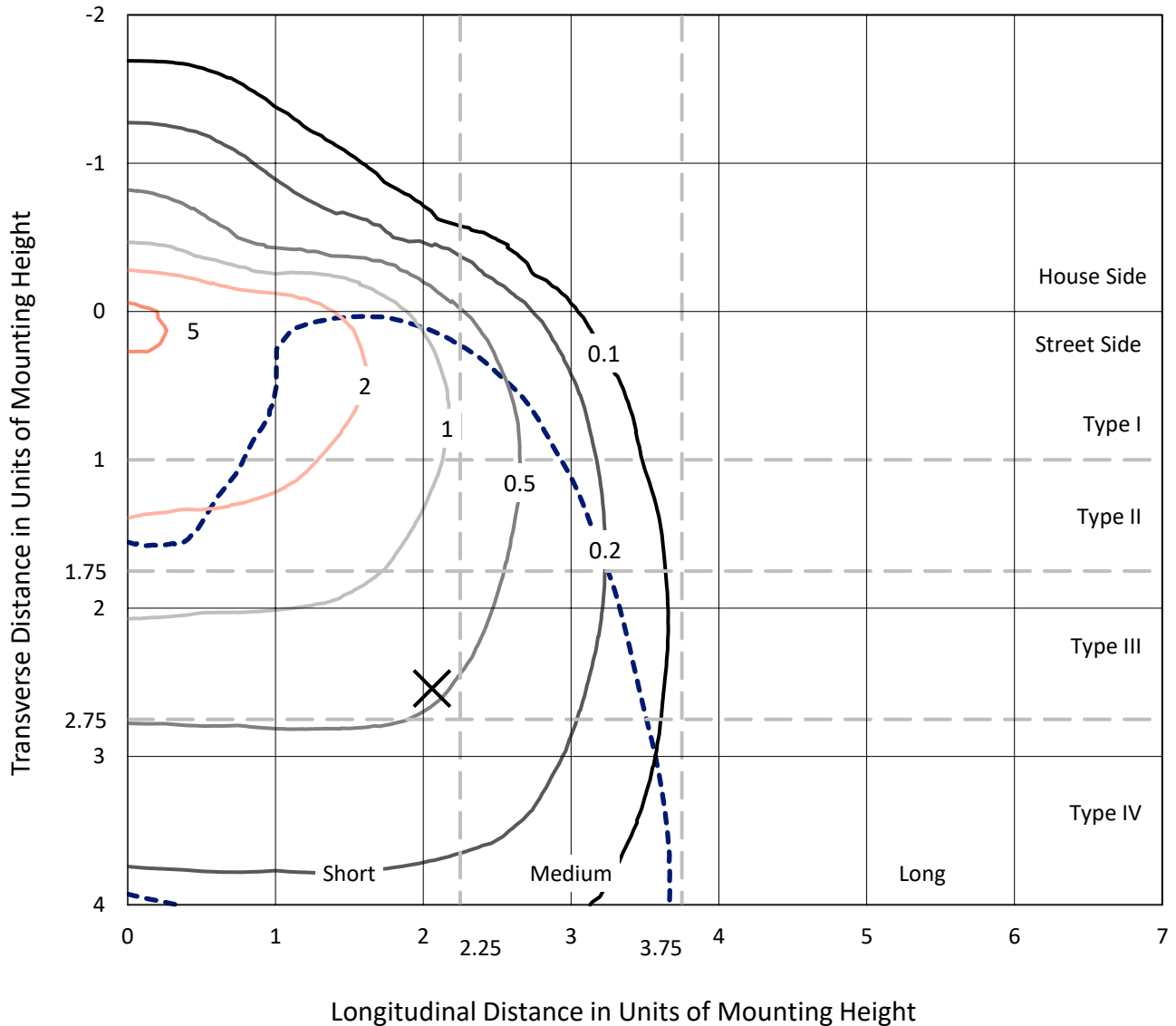
Lumens per Lamp: N/A
Luminaire Lumens: 20216.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

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Iso-Footcandle Lines of Horizontal Illumination

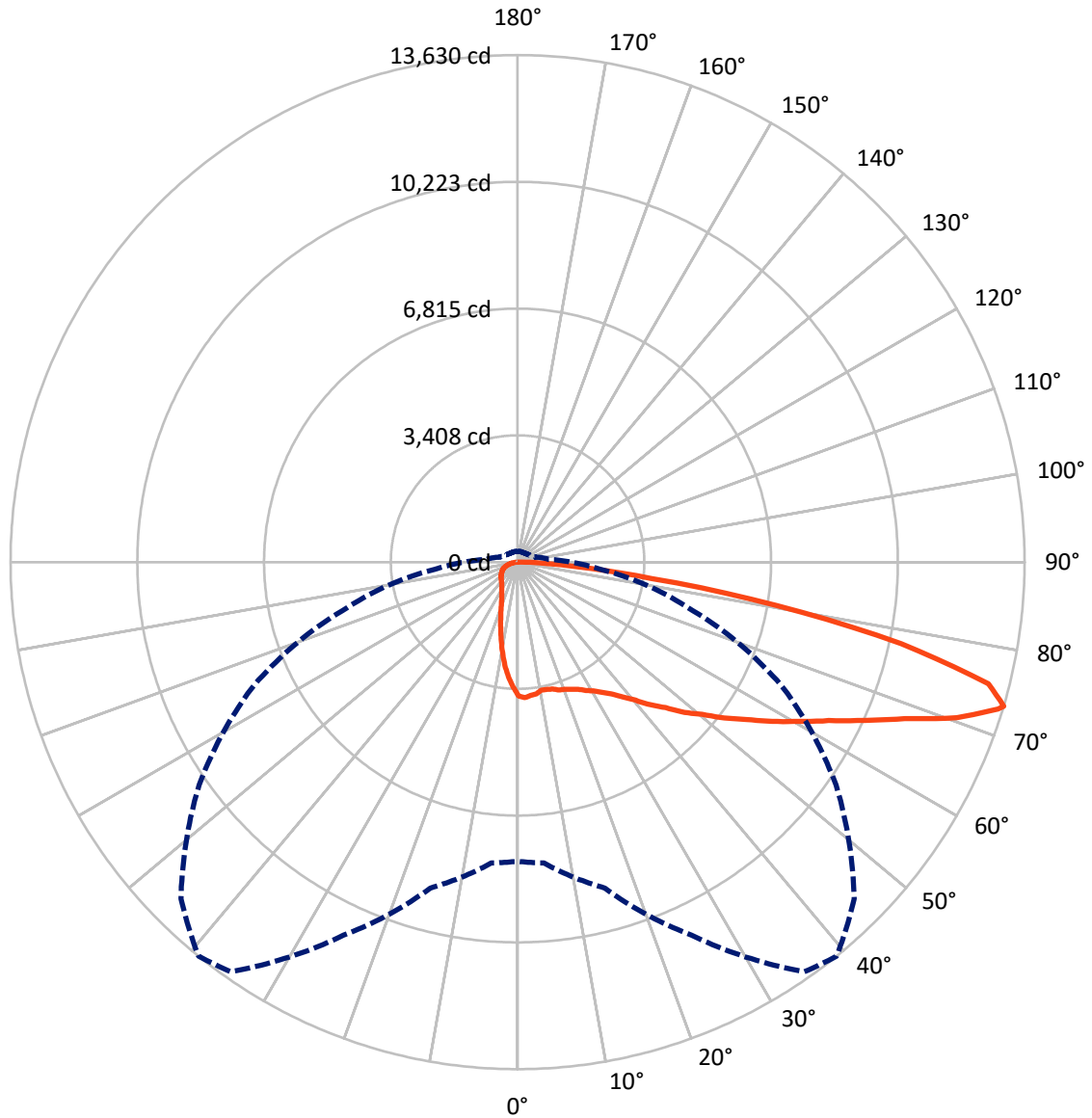
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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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	2841.8	0.0	2841.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17374.4	0.0	17374.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	20216.3	0.0	20216.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	1.5
10°-20°	794.1	3.9
20°-30°	1213.5	6.0
30°-40°	1769.4	8.8
40°-50°	2673.7	13.2
50°-60°	3871.7	19.2
60°-70°	4919.1	24.3
70°-80°	3987.7	19.7
80°-90°	674.7	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°	20216.3	100.0
0°-180°	20216.3	100.0

Coefficient of Utilization



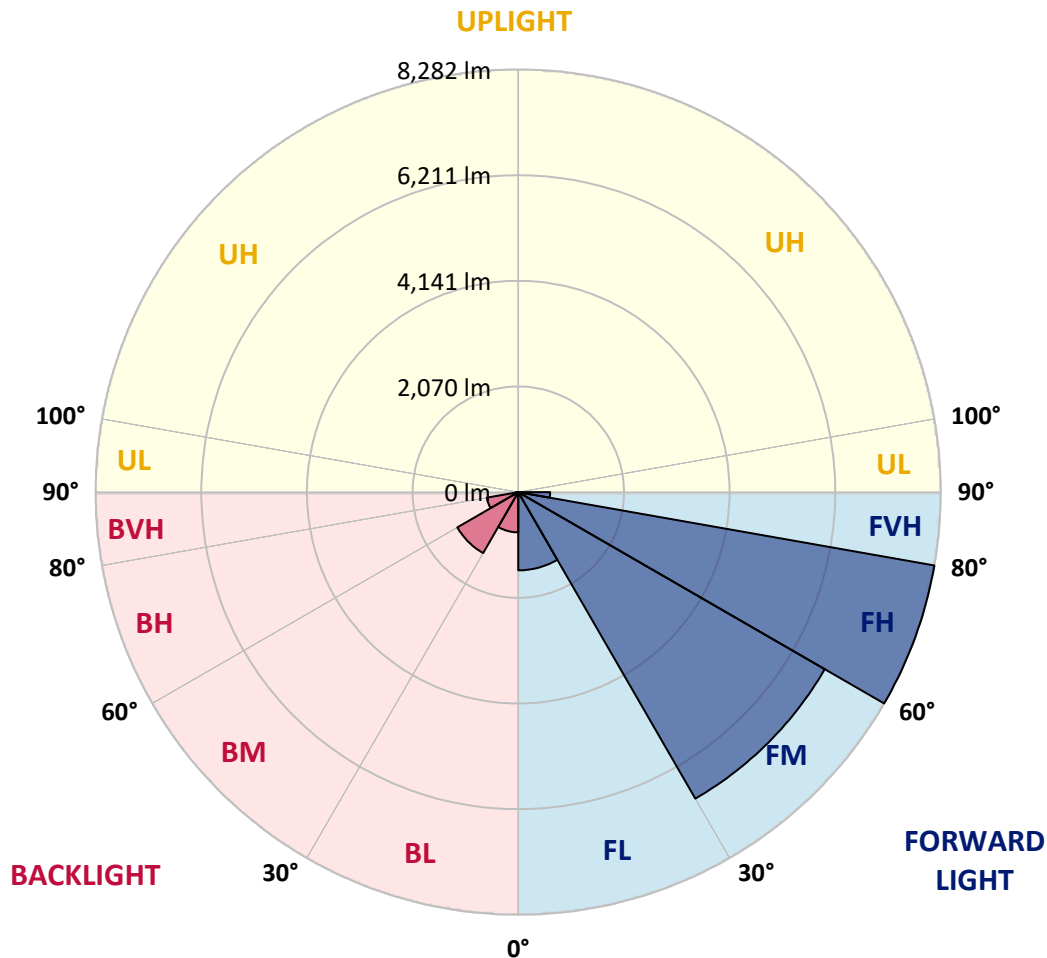
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.9	7.6			
FM (30°-60°)	6935.5	34.3			
FH (60°-80°)	8281.8	41.0			G4/12000
FVH (80°-90°)	625.2	3.1			G4/750
BL (0°-30°)	788.1	3.9	B2/1000		
BM (30°-60°)	1379.2	6.8	B2/2500		
BH (60°-80°)	625.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	49.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6
2.5°	3684.6	3646.1	3652.9	3639.3	3652.9	3648.4	3641.6	3607.7	3641.6	3607.7	3598.6
5°	3634.8	3634.8	3657.4	3623.5	3628.0	3605.4	3628.0	3603.1	3580.5	3524.0	3508.1
7.5°	3619.0	3616.7	3619.0	3571.5	3594.1	3580.5	3557.9	3530.8	3485.5	3449.3	3397.3
10°	3510.4	3533.0	3508.1	3521.7	3539.8	3499.1	3496.8	3490.1	3469.7	3422.2	3390.5
12.5°	3451.6	3490.1	3503.6	3492.3	3508.1	3512.7	3499.1	3490.1	3465.2	3433.5	3343.0
15°	3476.5	3431.2	3469.7	3544.3	3528.5	3539.8	3542.1	3533.0	3521.7	3462.9	3404.1
17.5°	3483.3	3456.1	3537.5	3553.4	3573.7	3614.5	3587.3	3585.0	3542.1	3501.4	3415.4
20°	3499.1	3487.8	3553.4	3637.1	3639.3	3646.1	3659.7	3625.8	3603.1	3533.0	3401.8
22.5°	3557.9	3596.4	3657.4	3693.6	3714.0	3718.5	3718.5	3650.6	3625.8	3569.2	3465.2
25°	3734.3	3693.6	3779.6	3822.5	3793.1	3786.4	3770.5	3709.5	3682.3	3632.5	3494.6
27.5°	3863.3	3861.0	3910.8	3969.6	3890.4	3906.2	3849.7	3831.6	3770.5	3743.4	3546.6
30°	4039.7	4089.4	4087.2	4105.3	4001.2	4019.3	3946.9	3913.0	3879.1	3894.9	3700.4
32.5°	4265.9	4247.8	4277.2	4263.6	4159.6	4175.4	4089.4	4037.4	4048.7	4096.2	3910.8
35°	4410.6	4392.5	4403.8	4403.8	4372.2	4354.1	4317.9	4250.0	4304.3	4392.5	4146.0
37.5°	4566.7	4589.3	4654.9	4641.3	4600.6	4600.6	4596.1	4548.6	4618.7	4835.9	4521.5
40°	4704.7	4765.7	4806.5	4833.6	4881.1	4881.1	4919.5	4892.4	5019.1	5367.4	4980.6
42.5°	4849.4	4851.7	5073.4	5093.7	5200.0	5245.3	5274.7	5297.3	5534.8	5923.8	5471.4
45°	5034.9	5046.2	5240.7	5396.8	5561.9	5577.7	5688.6	5763.2	6055.0	6532.3	6005.2
47.5°	5279.2	5265.6	5473.7	5722.5	5928.3	6036.9	6170.4	6251.8	6611.4	7192.7	6588.8
50°	5600.4	5559.7	5679.5	6070.8	6312.9	6432.7	6670.2	6805.9	7226.6	7823.8	6989.1
52.5°	5991.7	5923.8	6018.8	6446.3	6717.7	6959.7	7185.9	7337.5	7776.3	8312.3	7285.5
55°	6405.6	6265.4	6292.5	6844.4	7235.7	7464.1	7774.0	7932.3	8380.2	8751.1	7581.8
57.5°	6815.0	6726.8	6672.5	7226.6	7853.2	8072.6	8357.6	8563.4	8943.4	9140.2	7832.8
60°	7158.8	7136.2	7048.0	7819.3	8506.9	8694.6	8993.2	9119.8	9407.1	9499.8	7837.3
62.5°	7441.5	7364.6	7504.9	8296.5	9171.8	9384.5	9712.4	9723.7	9927.3	9723.7	7606.6
65°	7663.2	7667.7	7891.6	8873.3	9940.9	10255.3	10519.9	10490.5	10359.3	9590.3	7061.5
67.5°	7864.5	7950.4	8278.4	9506.6	10929.3	11225.6	11519.7	11130.6	10476.9	8966.0	5996.2
70°	8022.8	8108.8	8800.9	10277.9	12094.2	12528.4	12594.0	11383.9	9936.4	7595.3	4523.7
72.5°	8004.7	8160.8	9097.2	10893.1	13127.8	13503.3	12974.0	10671.5	8278.4	5295.0	2639.6
73°	8043.2	8120.1	9072.3	11065.0	13442.2	13630.0	12797.6	10447.5	7807.9	4749.9	2232.5
75°	7301.3	7561.4	8622.2	10784.6	13105.2	13071.3	11784.3	8705.9	5550.6	2494.8	1081.2
77.5°	5401.3	5566.4	6794.6	8868.8	10757.4	10540.3	8889.1	5564.2	2635.1	925.1	583.6
80°	2639.6	2768.5	3600.9	5120.9	7034.4	7052.5	5516.7	2895.2	1128.7	522.5	398.1
82.5°	1318.7	1395.6	1730.3	2250.6	3460.6	3625.8	2797.9	1646.6	698.9	296.3	226.2
85°	861.8	916.1	1065.3	1101.5	1467.9	1549.4	1302.8	1284.7	454.6	160.6	183.2
87.5°	572.3	581.3	653.7	556.4	588.1	565.5	628.8	809.7	133.4	67.9	49.8
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°	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6	3598.6
2.5°	3587.3	3555.6	3521.7	3474.2	3440.3	3388.3	3340.8	3320.4	3315.9	3318.1	3295.5
5°	3494.6	3449.3	3381.5	3284.2	3227.7	3141.7	3069.3	3030.9	2990.2	2997.0	2978.9
7.5°	3365.6	3315.9	3211.8	3098.7	2958.5	2836.4	2768.5	2673.5	2619.2	2578.5	2601.1
10°	3324.9	3239.0	3082.9	2926.8	2709.7	2549.1	2393.0	2284.5	2209.8	2137.5	2169.1
12.5°	3304.6	3218.6	3001.5	2770.8	2490.3	2246.0	2026.6	1893.2	1786.9	1723.5	1748.4
15°	3286.5	3180.2	2924.6	2598.9	2284.5	1963.3	1716.8	1540.3	1438.5	1377.5	1384.3
17.5°	3311.4	3159.8	2811.5	2431.5	2058.3	1714.5	1440.8	1257.6	1153.5	1115.1	1106.0
20°	3286.5	3137.2	2700.7	2264.1	1832.1	1477.0	1214.6	1063.1	990.7	959.0	952.2
22.5°	3295.5	3082.9	2585.3	2078.6	1621.8	1278.0	1063.1	947.7	891.2	875.3	879.9
25°	3338.5	3051.2	2470.0	1875.1	1413.7	1130.9	965.8	877.6	836.9	821.1	825.6
27.5°	3370.2	3078.4	2365.9	1682.8	1237.2	999.7	884.4	825.6	798.4	787.1	784.9
30°	3449.3	3094.2	2264.1	1510.9	1092.5	913.8	827.8	780.3	762.2	755.5	753.2
32.5°	3567.0	3123.6	2146.5	1352.6	986.2	832.4	782.6	741.9	737.4	730.6	732.8
35°	3759.2	3225.4	2015.3	1216.9	884.4	778.1	735.1	708.0	708.0	708.0	714.7
37.5°	4035.2	3367.9	1897.7	1088.0	818.8	730.6	694.4	685.3	680.8	687.6	692.1
40°	4390.3	3539.8	1802.7	986.2	762.2	698.9	667.2	662.7	660.5	658.2	662.7
42.5°	4779.3	3759.2	1721.3	907.0	721.5	665.0	642.4	637.8	628.8	633.3	640.1
45°	5166.1	4030.6	1648.9	843.7	694.4	646.9	615.2	613.0	608.4	606.2	617.5
47.5°	5595.8	4297.5	1626.3	805.2	674.0	619.7	597.1	594.9	581.3	579.0	588.1
50°	5930.6	4494.3	1651.2	787.1	644.6	599.4	583.6	572.3	560.9	549.6	549.6
52.5°	6161.3	4630.0	1669.3	773.6	628.8	572.3	551.9	547.4	536.1	524.8	520.2
55°	6369.4	4711.5	1673.8	775.8	613.0	540.6	527.0	524.8	518.0	499.9	495.3
57.5°	6439.5	4677.5	1583.3	755.5	603.9	520.2	502.1	506.7	497.6	481.8	479.5
60°	6432.7	4442.3	1377.5	728.3	583.6	497.6	475.0	488.6	488.6	470.5	468.2
62.5°	6041.4	3899.4	1126.4	676.3	560.9	475.0	450.1	470.5	477.3	465.9	463.7
65°	5229.4	3175.7	940.9	624.3	527.0	450.1	425.2	447.8	459.2	454.6	452.4
67.5°	4326.9	2429.2	782.6	556.4	484.0	416.2	395.8	411.7	418.4	420.7	423.0
70°	3058.0	1617.2	653.7	481.8	425.2	380.0	357.4	359.6	357.4	364.2	364.2
72.5°	1662.5	931.9	531.5	409.4	366.4	330.2	314.4	303.1	303.1	300.8	300.8
73°	1422.7	836.9	506.7	398.1	350.6	321.2	303.1	294.0	294.0	291.8	289.5
75°	798.4	613.0	434.3	341.5	303.1	280.5	266.9	253.3	251.1	251.1	251.1
77.5°	524.8	477.3	346.1	273.7	244.3	223.9	219.4	205.8	205.8	205.8	203.6
80°	393.6	375.5	266.9	208.1	187.7	171.9	167.4	158.3	156.1	147.0	149.3
82.5°	262.4	296.3	194.5	147.0	126.7	117.6	117.6	115.4	108.6	97.3	97.3
85°	208.1	242.0	140.2	90.5	74.6	63.3	65.6	63.3	61.1	49.8	47.5
87.5°	38.5	97.3	40.7	24.9	18.1	11.3	11.3	6.8	4.5	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)