

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: P480811

Luminaire Tested: **IFLD-S-SA3D-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

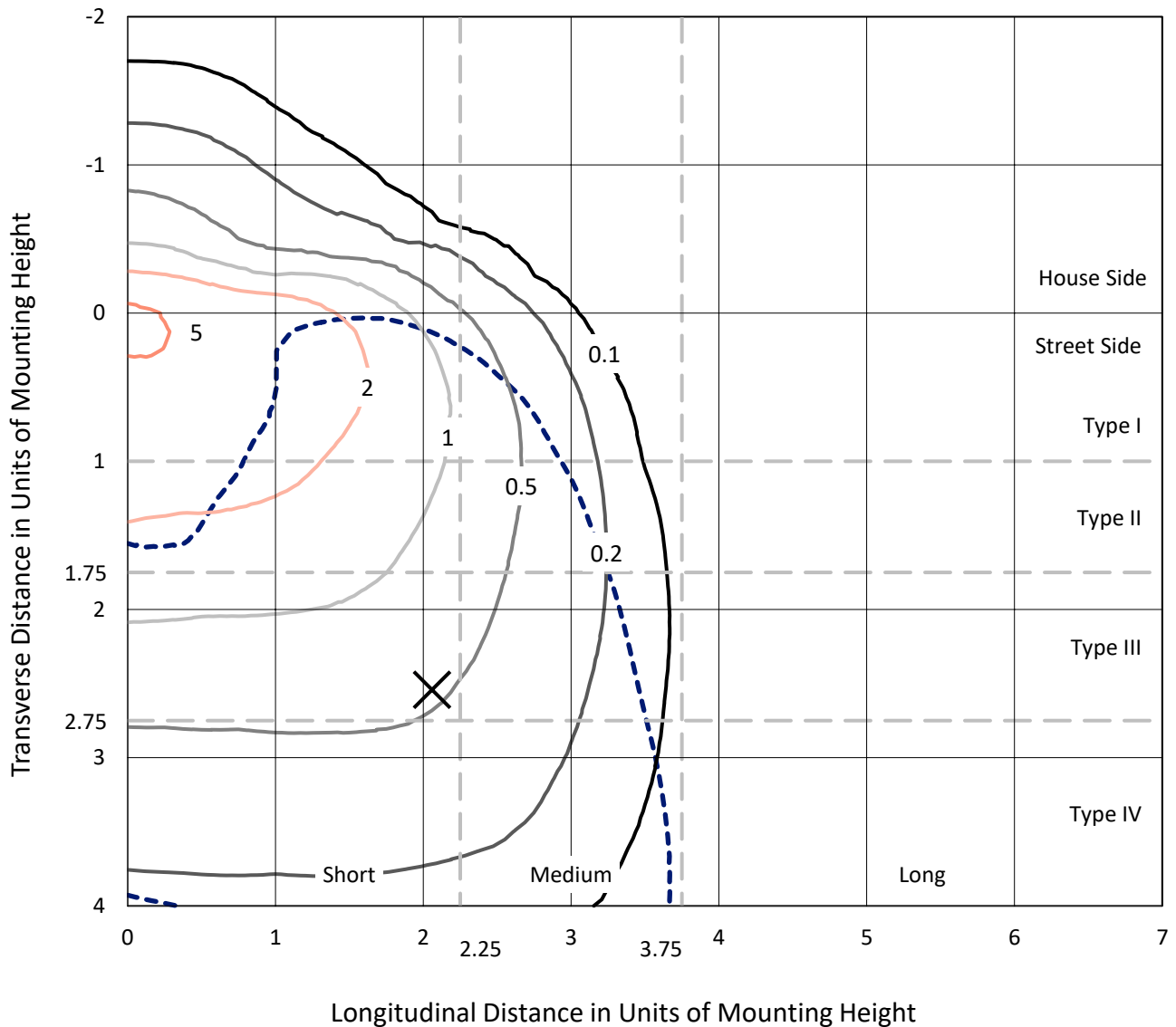
Lumens per Lamp: N/A
Luminaire Lumens: 20528.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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: P480811
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

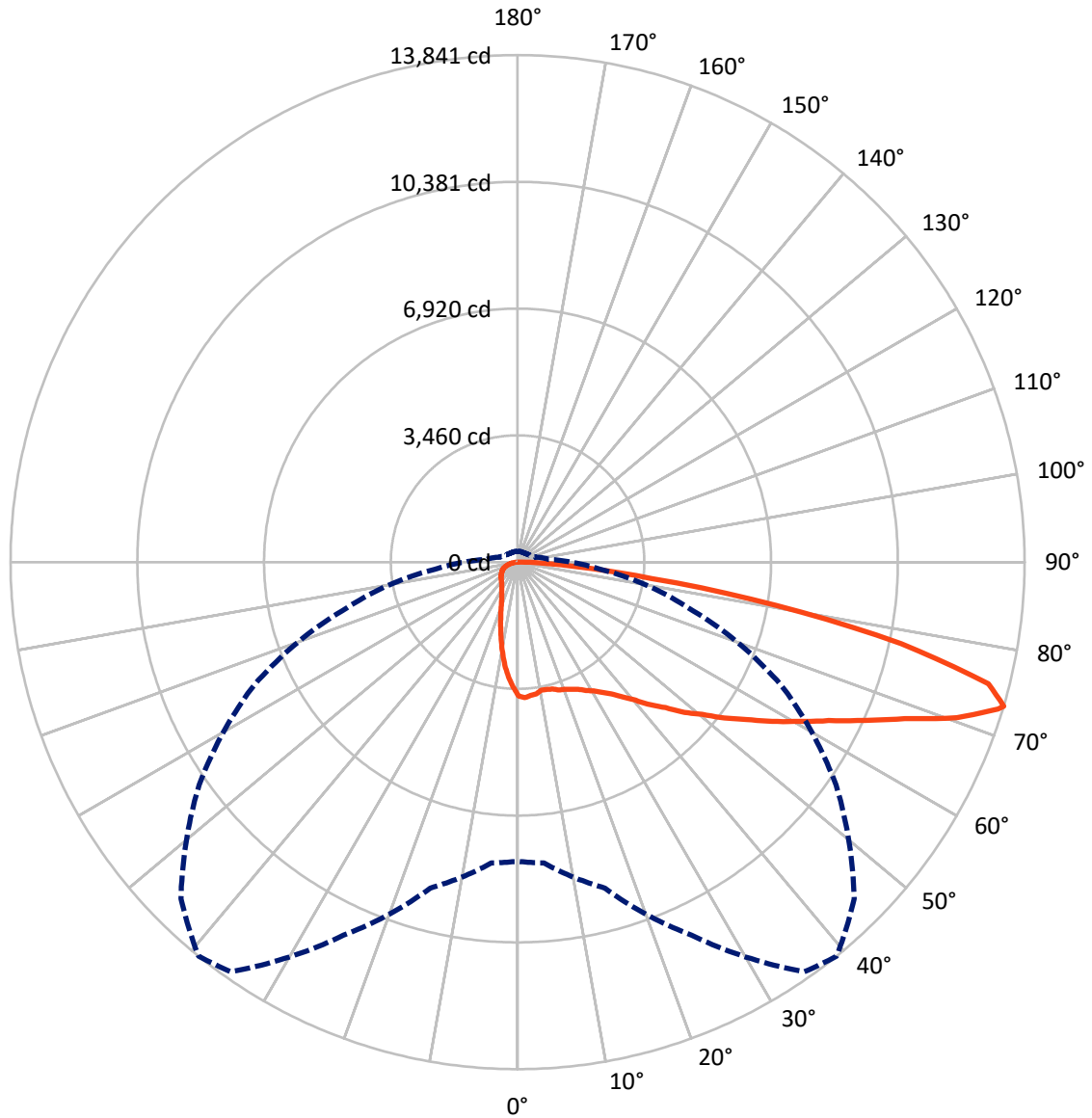
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P480811
CATALOG NUMBER: IFLD-S-SA3D-730-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	2885.8	0.0	2885.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17643.1	0.0	17643.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	20528.9	0.0	20528.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.5
10°-20°	806.4	3.9
20°-30°	1232.3	6.0
30°-40°	1796.7	8.8
40°-50°	2715.0	13.2
50°-60°	3931.5	19.2
60°-70°	4995.2	24.3
70°-80°	4049.4	19.7
80°-90°	685.1	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°	20528.9	100.0
0°-180°	20528.9	100.0

Coefficient of Utilization



REPORT NUMBER: P480811

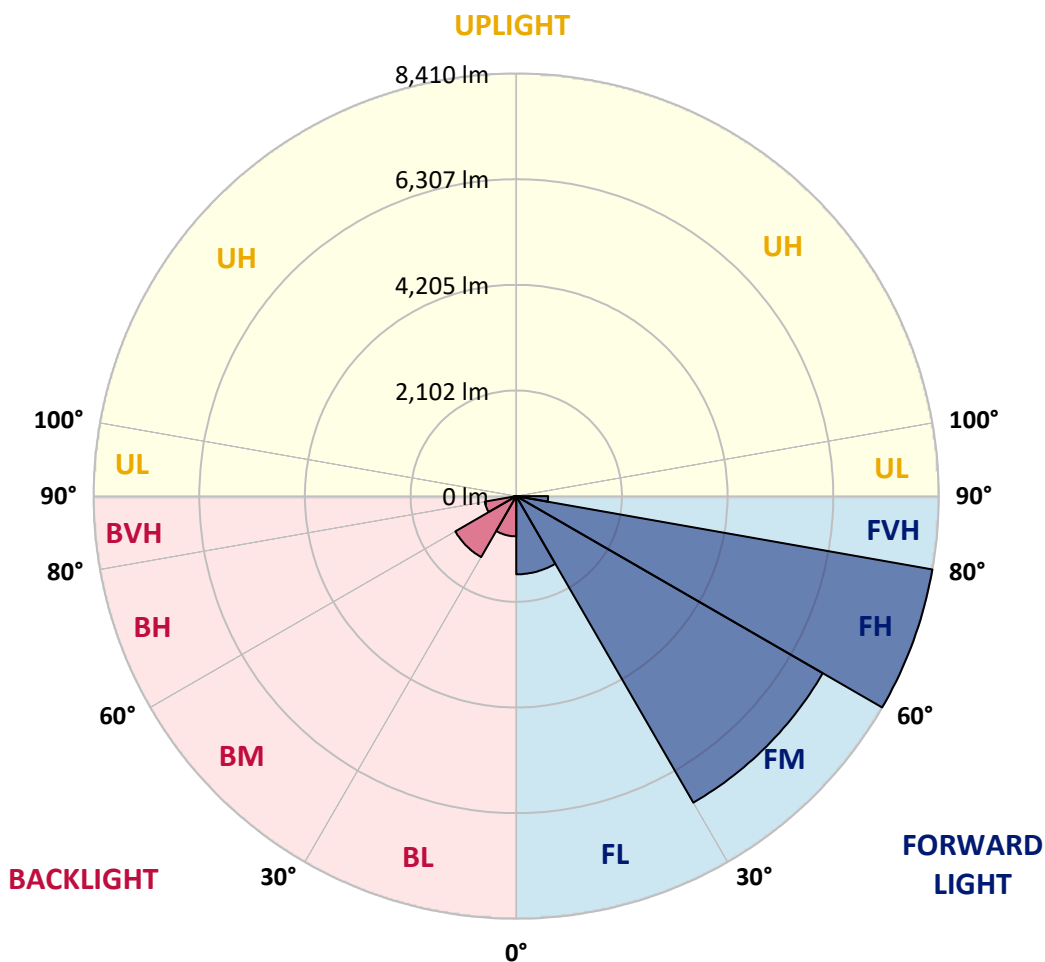
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.6	7.6			
FM (30°-60°)	7042.7	34.3			
FH (60°-80°)	8409.9	41.0			G4/12000
FVH (80°-90°)	634.9	3.1			G4/750
BL (0°-30°)	800.3	3.9	B2/1000		
BM (30°-60°)	1400.5	6.8	B2/2500		
BH (60°-80°)	634.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	50.3	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: P480811
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3
2.5°	3741.6	3702.5	3709.4	3695.6	3709.4	3704.8	3697.9	3663.5	3697.9	3663.5	3654.3
5°	3691.0	3691.0	3714.0	3679.5	3684.1	3661.2	3684.1	3658.9	3635.9	3578.5	3562.4
7.5°	3674.9	3672.6	3674.9	3626.7	3649.7	3635.9	3612.9	3585.4	3539.4	3502.7	3449.9
10°	3564.7	3587.7	3562.4	3576.2	3594.6	3553.2	3550.9	3544.0	3523.4	3475.1	3443.0
12.5°	3505.0	3544.0	3557.8	3546.3	3562.4	3567.0	3553.2	3544.0	3518.8	3486.6	3394.7
15°	3530.2	3484.3	3523.4	3599.2	3583.1	3594.6	3596.9	3587.7	3576.2	3516.5	3456.7
17.5°	3537.1	3509.6	3592.3	3608.3	3629.0	3670.4	3642.8	3640.5	3596.9	3555.5	3468.2
20°	3553.2	3541.7	3608.3	3693.3	3695.6	3702.5	3716.3	3681.8	3658.9	3587.7	3454.4
22.5°	3612.9	3652.0	3714.0	3750.7	3771.4	3776.0	3776.0	3707.1	3681.8	3624.4	3518.8
25°	3792.1	3750.7	3838.0	3881.7	3851.8	3844.9	3828.8	3766.8	3739.3	3688.7	3548.6
27.5°	3923.0	3920.7	3971.2	4031.0	3950.6	3966.6	3909.2	3890.8	3828.8	3801.3	3601.4
30°	4102.2	4152.7	4150.4	4168.8	4063.1	4081.5	4008.0	3973.5	3939.1	3955.2	3757.6
32.5°	4331.8	4313.5	4343.3	4329.5	4223.9	4240.0	4152.7	4099.9	4111.3	4159.6	3971.2
35°	4478.8	4460.5	4472.0	4472.0	4439.8	4421.4	4384.7	4315.8	4370.9	4460.5	4210.1
37.5°	4637.3	4660.3	4726.9	4713.1	4671.8	4671.8	4667.2	4618.9	4690.2	4910.6	4591.4
40°	4777.4	4839.4	4880.8	4908.4	4956.6	4956.6	4995.6	4968.1	5096.7	5450.4	5057.6
42.5°	4924.4	4926.7	5151.8	5172.5	5280.4	5326.4	5356.2	5379.2	5620.4	6015.4	5556.1
45°	5112.8	5124.3	5321.8	5480.3	5647.9	5664.0	5776.6	5852.4	6148.6	6633.3	6098.1
47.5°	5360.8	5347.0	5558.4	5811.0	6020.0	6130.3	6265.8	6348.5	6713.7	7304.0	6690.7
50°	5687.0	5645.6	5767.4	6164.7	6410.5	6532.2	6773.4	6911.2	7338.4	7944.8	7097.2
52.5°	6084.3	6015.4	6111.9	6546.0	6821.6	7067.4	7297.1	7451.0	7896.5	8440.9	7398.1
55°	6504.7	6362.3	6389.8	6950.2	7347.6	7579.6	7894.2	8055.0	8509.8	8886.5	7699.0
57.5°	6920.4	6830.8	6775.7	7338.4	7974.6	8197.4	8486.8	8695.8	9081.7	9281.5	7954.0
60°	7269.5	7246.5	7157.0	7940.2	8638.4	8829.1	9132.2	9260.9	9552.6	9646.7	7958.6
62.5°	7556.6	7478.5	7620.9	8424.8	9313.7	9529.6	9862.6	9874.1	10080.8	9874.1	7724.3
65°	7781.7	7786.3	8013.7	9010.5	10094.6	10413.9	10682.6	10652.8	10519.5	9738.6	7170.7
67.5°	7986.1	8073.4	8406.4	9653.6	11098.3	11399.2	11697.8	11302.8	10639.0	9104.7	6088.9
70°	8146.9	8234.2	8937.0	10436.8	12281.2	12722.2	12788.8	11560.0	10090.0	7712.8	4593.7
72.5°	8128.5	8287.0	9237.9	11061.6	13330.9	13712.1	13174.7	10836.5	8406.4	5376.9	2680.4
73°	8167.6	8245.7	9212.6	11236.1	13650.1	13840.8	12995.5	10609.1	7928.7	4823.4	2267.0
75°	7414.2	7678.3	8755.6	10951.3	13307.9	13273.4	11966.5	8840.5	5636.4	2533.4	1097.9
77.5°	5484.9	5652.5	6899.7	9005.9	10923.8	10703.3	9026.6	5650.2	2675.8	939.4	592.6
80°	2680.4	2811.3	3656.6	5200.0	7143.2	7161.6	5602.0	2940.0	1146.1	530.6	404.2
82.5°	1339.1	1417.2	1757.1	2285.4	3514.2	3681.8	2841.2	1672.1	709.7	300.9	229.7
85°	875.1	930.2	1081.8	1118.6	1490.7	1573.3	1323.0	1304.6	461.7	163.1	186.0
87.5°	581.1	590.3	663.8	565.0	597.2	574.2	638.5	822.3	135.5	68.9	50.5
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°	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3	3654.3
2.5°	3642.8	3610.6	3576.2	3527.9	3493.5	3440.7	3392.4	3371.8	3367.2	3369.5	3346.5
5°	3548.6	3502.7	3433.8	3335.0	3277.6	3190.3	3116.8	3077.8	3036.4	3043.3	3024.9
7.5°	3417.7	3367.2	3261.5	3146.7	3004.3	2880.2	2811.3	2714.9	2659.7	2618.4	2641.4
10°	3376.4	3289.1	3130.6	2972.1	2751.6	2588.5	2430.1	2319.8	2244.0	2170.5	2202.7
12.5°	3355.7	3268.4	3047.9	2813.6	2528.8	2280.8	2058.0	1922.5	1814.5	1750.2	1775.5
15°	3337.3	3229.4	2969.8	2639.1	2319.8	1993.7	1743.3	1564.1	1460.8	1398.8	1405.7
17.5°	3362.6	3208.7	2855.0	2469.1	2090.1	1741.0	1463.1	1277.0	1171.4	1132.3	1123.2
20°	3337.3	3185.7	2742.4	2299.1	1860.4	1499.8	1233.4	1079.5	1006.0	973.9	967.0
22.5°	3346.5	3130.6	2625.3	2110.8	1646.8	1297.7	1079.5	962.4	905.0	888.9	893.5
25°	3390.1	3098.4	2508.2	1904.1	1435.5	1148.4	980.8	891.2	849.8	833.8	838.3
27.5°	3422.3	3126.0	2402.5	1708.9	1256.4	1015.2	898.1	838.3	810.8	799.3	797.0
30°	3502.7	3142.1	2299.1	1534.3	1109.4	927.9	840.6	792.4	774.0	767.1	764.8
32.5°	3622.1	3171.9	2179.7	1373.5	1001.4	845.2	794.7	753.4	748.8	741.9	744.2
35°	3817.4	3275.3	2046.5	1235.7	898.1	790.1	746.5	718.9	718.9	718.9	725.8
37.5°	4097.6	3420.0	1927.1	1104.8	831.5	741.9	705.1	695.9	691.3	698.2	702.8
40°	4458.2	3594.6	1830.6	1001.4	774.0	709.7	677.6	673.0	670.7	668.4	673.0
42.5°	4853.2	3817.4	1747.9	921.0	732.7	675.3	652.3	647.7	638.5	643.1	650.0
45°	5246.0	4093.0	1674.4	856.7	705.1	656.9	624.7	622.4	617.9	615.6	627.0
47.5°	5682.4	4364.0	1651.4	817.7	684.5	629.3	606.4	604.1	590.3	588.0	597.2
50°	6022.3	4563.8	1676.7	799.3	654.6	608.7	592.6	581.1	569.6	558.1	558.1
52.5°	6256.6	4701.6	1695.1	785.5	638.5	581.1	560.4	555.8	544.4	532.9	528.3
55°	6467.9	4784.3	1699.7	787.8	622.4	548.9	535.2	532.9	526.0	507.6	503.0
57.5°	6539.1	4749.9	1607.8	767.1	613.3	528.3	509.9	514.5	505.3	489.2	486.9
60°	6532.2	4511.0	1398.8	739.6	592.6	505.3	482.3	496.1	496.1	477.7	475.4
62.5°	6134.9	3959.8	1143.8	686.8	569.6	482.3	457.1	477.7	484.6	473.1	470.9
65°	5310.3	3224.8	955.5	633.9	535.2	457.1	431.8	454.8	466.3	461.7	459.4
67.5°	4393.9	2466.8	794.7	565.0	491.5	422.6	401.9	418.0	424.9	427.2	429.5
70°	3105.3	1642.2	663.8	489.2	431.8	385.9	362.9	365.2	362.9	369.8	369.8
72.5°	1688.2	946.3	539.8	415.7	372.1	335.3	319.3	307.8	307.8	305.5	305.5
73°	1444.7	849.8	514.5	404.2	356.0	326.2	307.8	298.6	298.6	296.3	294.0
75°	810.8	622.4	441.0	346.8	307.8	284.8	271.0	257.2	254.9	254.9	254.9
77.5°	532.9	484.6	351.4	277.9	248.1	227.4	222.8	209.0	209.0	209.0	206.7
80°	399.7	381.3	271.0	211.3	190.6	174.6	170.0	160.8	158.5	149.3	151.6
82.5°	266.4	300.9	197.5	149.3	128.6	119.4	119.4	117.1	110.2	98.8	98.8
85°	211.3	245.8	142.4	91.9	75.8	64.3	66.6	64.3	62.0	50.5	48.2
87.5°	39.0	98.8	41.3	25.3	18.4	11.5	11.5	6.9	4.6	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)