

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: P480927

Luminaire Tested: **IFLD-S-SA3C-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480927
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

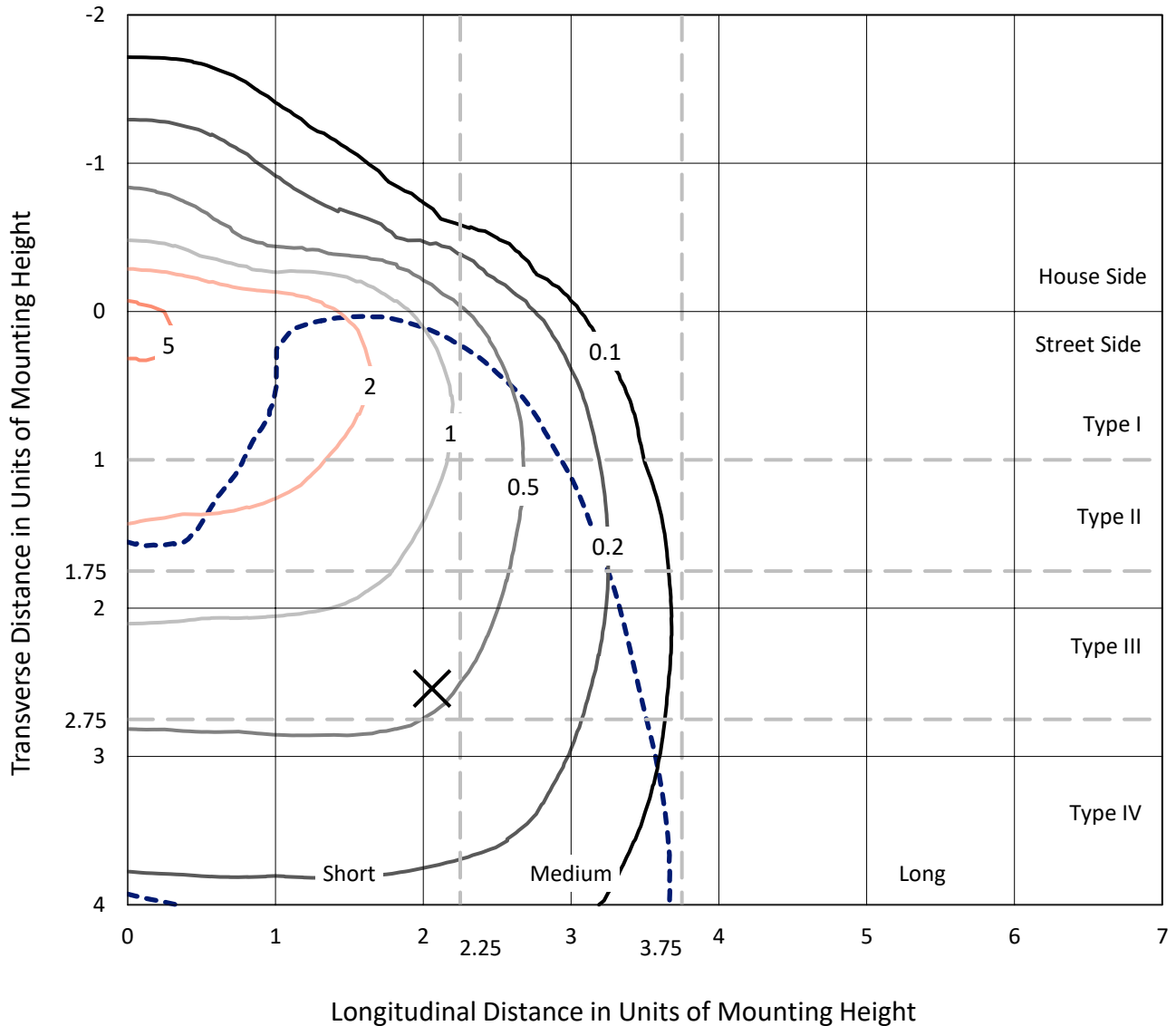
Lumens per Lamp: N/A
Luminaire Lumens: 20958.1 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 160.8
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

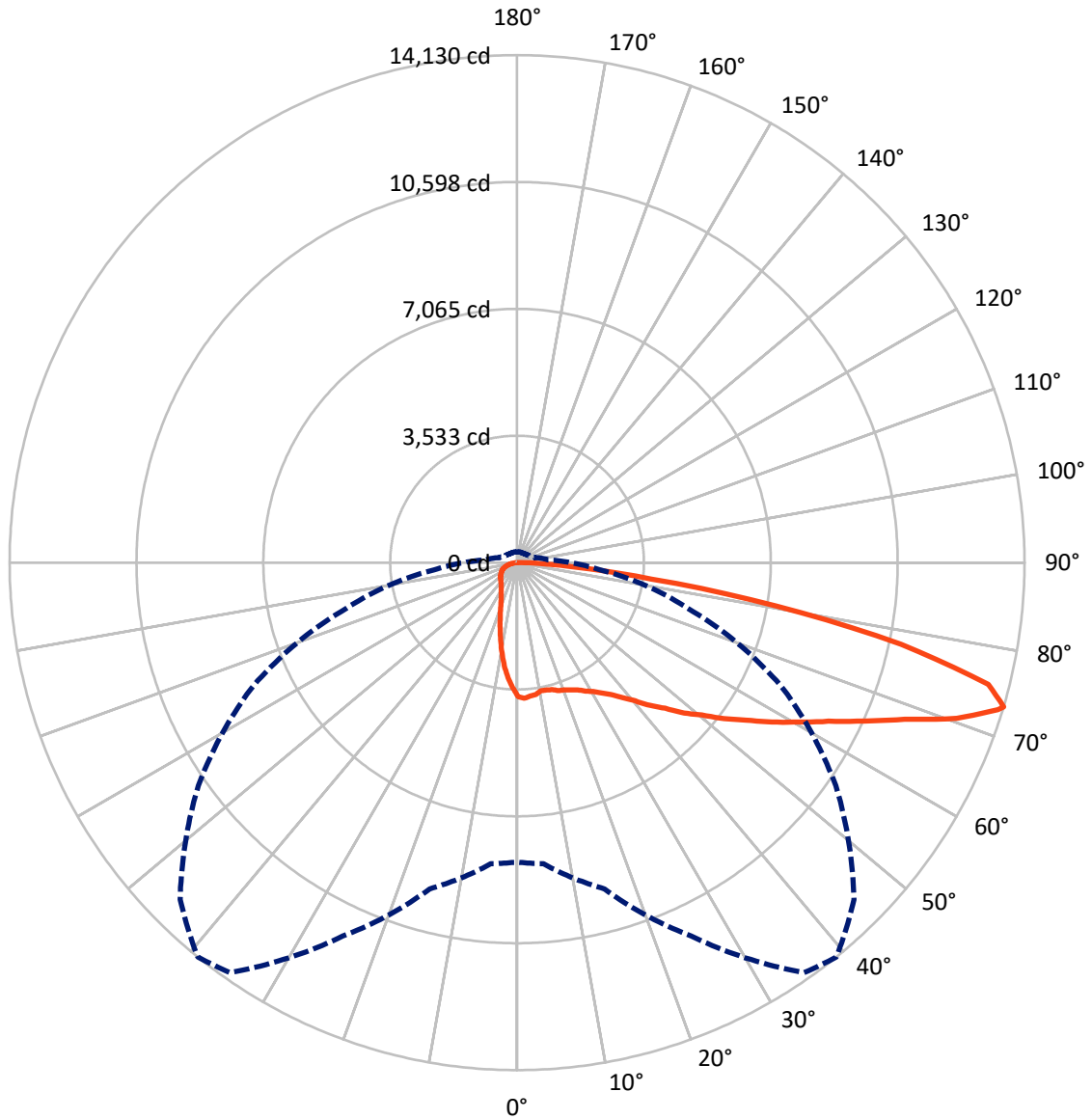
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2946.1	0.0	2946.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18012.0	0.0	18012.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	20958.1	0.0	20958.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	1.5
10°-20°	823.3	3.9
20°-30°	1258.1	6.0
30°-40°	1834.3	8.8
40°-50°	2771.8	13.2
50°-60°	4013.7	19.2
60°-70°	5099.6	24.3
70°-80°	4134.0	19.7
80°-90°	699.5	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°	20958.1	100.0
0°-180°	20958.1	100.0

Coefficient of Utilization



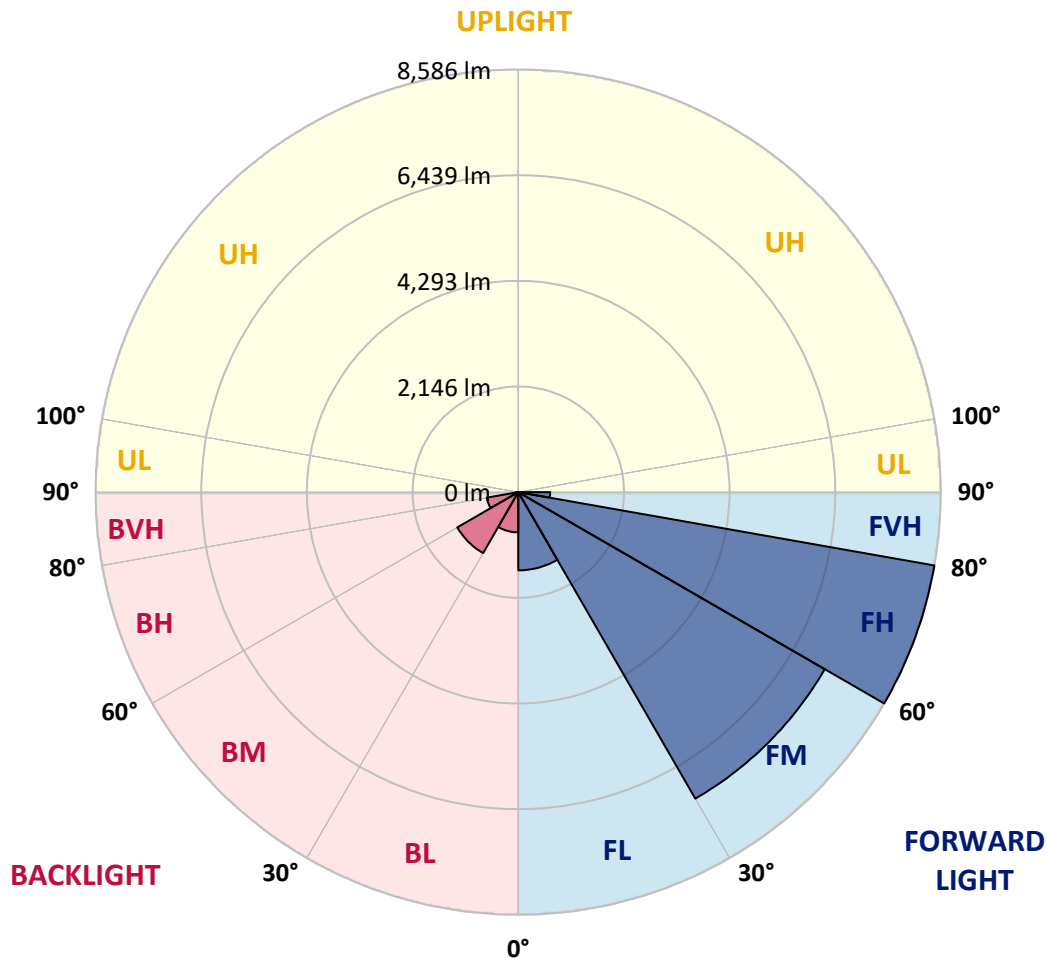
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.2	7.6			
FM (30°-60°)	7190.0	34.3			
FH (60°-80°)	8585.7	41.0			G4/12000
FVH (80°-90°)	648.1	3.1			G4/750
BL (0°-30°)	817.0	3.9	B2/1000		
BM (30°-60°)	1429.8	6.8	B2/2500		
BH (60°-80°)	648.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	51.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7
2.5°	3819.8	3779.9	3786.9	3772.9	3786.9	3782.3	3775.2	3740.0	3775.2	3740.0	3730.7
5°	3768.2	3768.2	3791.6	3756.5	3761.2	3737.7	3761.2	3735.4	3711.9	3653.3	3636.9
7.5°	3751.8	3749.4	3751.8	3702.5	3726.0	3711.9	3688.5	3660.3	3613.4	3575.9	3522.0
10°	3639.2	3662.7	3636.9	3650.9	3669.7	3627.5	3625.2	3618.1	3597.0	3547.8	3514.9
12.5°	3578.3	3618.1	3632.2	3620.5	3636.9	3641.6	3627.5	3618.1	3592.3	3559.5	3465.7
15°	3604.0	3557.1	3597.0	3674.4	3658.0	3669.7	3672.0	3662.7	3650.9	3590.0	3529.0
17.5°	3611.1	3582.9	3667.4	3683.8	3704.9	3747.1	3718.9	3716.6	3672.0	3629.8	3540.7
20°	3627.5	3615.8	3683.8	3770.5	3772.9	3779.9	3794.0	3758.8	3735.4	3662.7	3526.7
22.5°	3688.5	3728.3	3791.6	3829.2	3850.3	3854.9	3854.9	3784.6	3758.8	3700.2	3592.3
25°	3871.4	3829.2	3918.3	3962.8	3932.3	3925.3	3908.9	3845.6	3817.4	3765.8	3622.8
27.5°	4005.0	4002.7	4054.3	4115.2	4033.2	4049.6	3990.9	3972.2	3908.9	3880.7	3676.7
30°	4187.9	4239.5	4237.2	4255.9	4148.1	4166.8	4091.8	4056.6	4021.4	4037.8	3836.2
32.5°	4422.4	4403.6	4434.1	4420.1	4312.2	4328.6	4239.5	4185.6	4197.3	4246.5	4054.3
35°	4572.5	4553.7	4565.4	4565.4	4532.6	4513.9	4476.3	4406.0	4462.3	4553.7	4298.1
37.5°	4734.3	4757.7	4825.7	4811.6	4769.4	4769.4	4764.8	4715.5	4788.2	5013.3	4687.4
40°	4877.3	4940.6	4982.8	5011.0	5060.2	5060.2	5100.1	5071.9	5203.2	5564.3	5163.4
42.5°	5027.4	5029.7	5259.5	5280.6	5390.8	5437.7	5468.2	5491.7	5737.9	6141.2	5672.2
45°	5219.7	5231.4	5433.0	5594.8	5766.0	5782.4	5897.3	5974.7	6277.2	6772.0	6225.6
47.5°	5472.9	5458.8	5674.6	5932.5	6145.9	6258.4	6396.8	6481.2	6854.0	7456.6	6830.6
50°	5805.9	5763.7	5887.9	6293.6	6544.5	6668.8	6915.0	7055.7	7491.8	8110.9	7245.6
52.5°	6211.5	6141.2	6239.7	6682.8	6964.2	7215.1	7449.6	7606.7	8061.6	8617.4	7552.8
55°	6640.6	6495.3	6523.4	7095.5	7501.2	7738.0	8059.3	8223.4	8687.7	9072.3	7860.0
57.5°	7065.1	6973.6	6917.3	7491.8	8141.3	8368.8	8664.3	8877.6	9271.6	9475.6	8120.2
60°	7421.5	7398.0	7306.6	8106.2	8819.0	9013.6	9323.2	9454.5	9752.3	9848.4	8124.9
62.5°	7714.6	7634.9	7780.2	8600.9	9508.4	9728.8	10068.8	10080.5	10291.6	10080.5	7885.8
65°	7944.4	7949.1	8181.2	9198.9	10305.7	10631.6	10905.9	10875.5	10739.4	9942.2	7320.6
67.5°	8153.1	8242.2	8582.2	9855.4	11330.4	11637.5	11942.4	11539.0	10861.4	9295.0	6216.2
70°	8317.2	8406.3	9123.8	10655.0	12538.0	12988.2	13056.2	11801.7	10301.0	7874.0	4689.7
72.5°	8298.5	8460.2	9431.0	11292.8	13609.6	13998.8	13450.1	11063.0	8582.2	5489.3	2736.4
73°	8338.3	8418.0	9405.2	11471.0	13935.5	14130.1	13267.2	10830.9	8094.5	4924.2	2314.4
75°	7569.2	7838.9	8938.6	11180.3	13586.1	13550.9	12216.7	9025.4	5754.3	2586.4	1120.8
77.5°	5599.5	5770.7	7044.0	9194.2	11152.1	10927.0	9215.3	5768.4	2731.8	959.0	605.0
80°	2736.4	2870.1	3733.0	5308.8	7292.5	7311.3	5719.1	3001.4	1170.1	541.7	412.7
82.5°	1367.1	1446.8	1793.8	2333.1	3587.6	3758.8	2900.6	1707.1	724.6	307.2	234.5
85°	893.4	949.7	1104.4	1141.9	1521.8	1606.2	1350.6	1331.9	471.3	166.5	189.9
87.5°	593.2	602.6	677.7	576.8	609.7	586.2	651.9	839.5	138.3	70.3	51.6
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°	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7	3730.7
2.5°	3718.9	3686.1	3650.9	3601.7	3566.5	3512.6	3463.4	3442.3	3437.6	3439.9	3416.5
5°	3622.8	3575.9	3505.6	3404.7	3346.1	3257.0	3182.0	3142.1	3099.9	3106.9	3088.2
7.5°	3489.1	3437.6	3329.7	3212.5	3067.1	2940.5	2870.1	2771.6	2715.3	2673.1	2696.6
10°	3446.9	3357.8	3196.0	3034.2	2809.1	2642.7	2480.9	2368.3	2290.9	2215.9	2248.7
12.5°	3425.8	3336.7	3111.6	2872.5	2581.7	2328.4	2101.0	1962.6	1852.4	1786.8	1812.6
15°	3407.1	3296.9	3031.9	2694.2	2368.3	2035.3	1779.7	1596.8	1491.3	1428.0	1435.1
17.5°	3432.9	3275.8	2914.7	2520.7	2133.8	1777.4	1493.7	1303.7	1195.9	1156.0	1146.6
20°	3407.1	3252.3	2799.8	2347.2	1899.3	1531.2	1259.2	1102.1	1027.0	994.2	987.2
22.5°	3416.5	3196.0	2680.2	2154.9	1681.3	1324.8	1102.1	982.5	923.9	907.5	912.1
25°	3461.0	3163.2	2560.6	1943.9	1465.5	1172.4	1001.3	909.8	867.6	851.2	855.9
27.5°	3493.8	3191.4	2452.7	1744.6	1282.6	1036.4	916.8	855.9	827.7	816.0	813.7
30°	3575.9	3207.8	2347.2	1566.4	1132.6	947.3	858.2	809.0	790.2	783.2	780.8
32.5°	3697.8	3238.2	2225.3	1402.2	1022.4	862.9	811.3	769.1	764.4	757.4	759.7
35°	3897.2	3343.8	2089.3	1261.5	916.8	806.6	762.1	733.9	733.9	733.9	741.0
37.5°	4183.2	3491.5	1967.3	1127.9	848.8	757.4	719.9	710.5	705.8	712.8	717.5
40°	4551.4	3669.7	1868.9	1022.4	790.2	724.6	691.7	687.0	684.7	682.4	687.0
42.5°	4954.7	3897.2	1784.4	940.3	748.0	689.4	665.9	661.2	651.9	656.6	663.6
45°	5355.7	4178.5	1709.4	874.6	719.9	670.6	637.8	635.5	630.8	628.4	640.1
47.5°	5801.2	4455.2	1686.0	834.8	698.8	642.5	619.0	616.7	602.6	600.3	609.7
50°	6148.2	4659.2	1711.7	816.0	668.3	621.4	605.0	593.2	581.5	569.8	569.8
52.5°	6387.4	4799.9	1730.5	801.9	651.9	593.2	572.1	567.5	555.7	544.0	539.3
55°	6603.1	4884.3	1735.2	804.3	635.5	560.4	546.4	544.0	537.0	518.2	513.5
57.5°	6675.8	4849.2	1641.4	783.2	626.1	539.3	520.6	525.2	515.9	499.5	497.1
60°	6668.8	4605.3	1428.0	755.0	605.0	515.9	492.4	506.5	506.5	487.7	485.4
62.5°	6263.1	4042.5	1167.7	701.1	581.5	492.4	466.6	487.7	494.8	483.0	480.7
65°	5421.3	3292.2	975.5	647.2	546.4	466.6	440.8	464.3	476.0	471.3	469.0
67.5°	4485.7	2518.4	811.3	576.8	501.8	431.5	410.4	426.8	433.8	436.1	438.5
70°	3170.2	1676.6	677.7	499.5	440.8	393.9	370.5	372.8	370.5	377.5	377.5
72.5°	1723.5	966.1	551.0	424.4	379.9	342.3	325.9	314.2	314.2	311.9	311.9
73°	1474.9	867.6	525.2	412.7	363.5	333.0	314.2	304.8	304.8	302.5	300.1
75°	827.7	635.5	450.2	354.1	314.2	290.8	276.7	262.6	260.3	260.3	260.3
77.5°	544.0	494.8	358.8	283.7	253.2	232.1	227.5	213.4	213.4	213.4	211.0
80°	408.0	389.2	276.7	215.7	194.6	178.2	173.5	164.1	161.8	152.4	154.8
82.5°	272.0	307.2	201.7	152.4	131.3	121.9	121.9	119.6	112.6	100.8	100.8
85°	215.7	250.9	145.4	93.8	77.4	65.7	68.0	65.7	63.3	51.6	49.2
87.5°	39.9	100.8	42.2	25.8	18.8	11.7	11.7	7.0	4.7	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)