

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: P480534

Luminaire Tested: **IFLD-S-SA2E-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480534
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

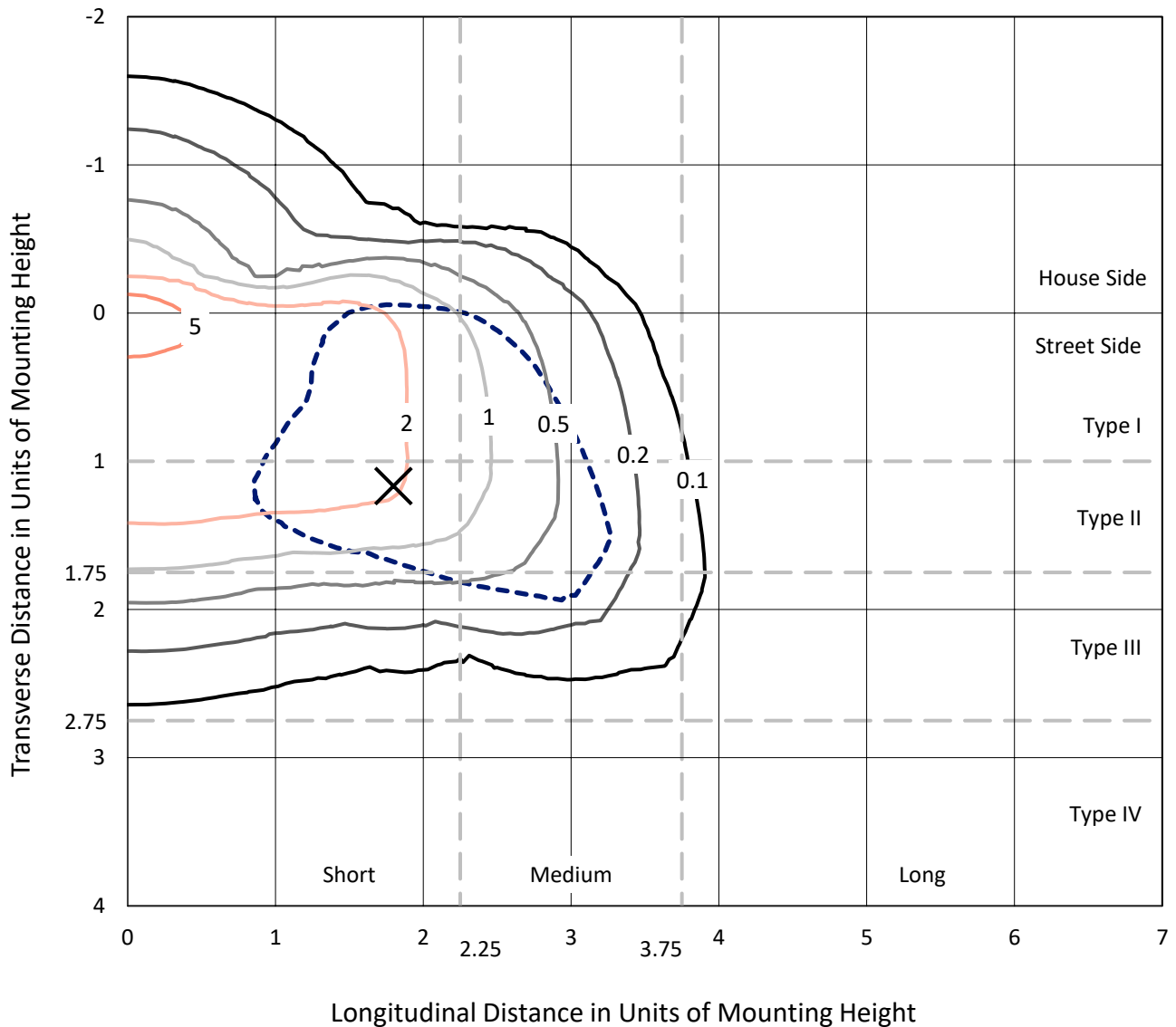
Lumens per Lamp: N/A
Luminaire Lumens: 18268.1 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

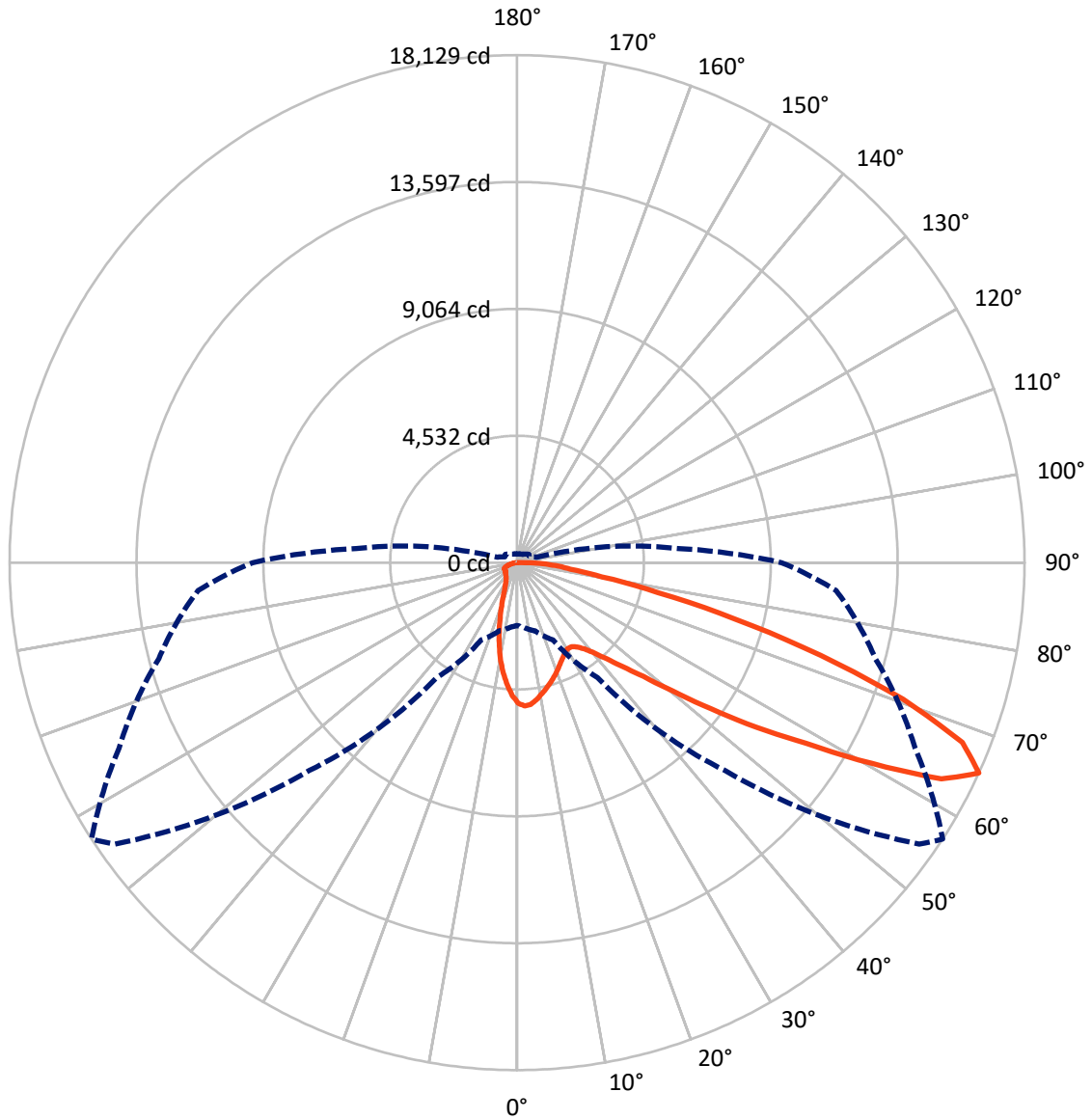
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2801.6	0.0	2801.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15466.5	0.0	15466.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	18268.1	0.0	18268.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.7	2.3
10°-20°	905.4	5.0
20°-30°	1170.6	6.4
30°-40°	1575.2	8.6
40°-50°	2511.7	13.7
50°-60°	4436.3	24.3
60°-70°	4880.5	26.7
70°-80°	2041.6	11.2
80°-90°	326.3	1.8
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°	18268.1	100.0
0°-180°	18268.1	100.0

Coefficient of Utilization



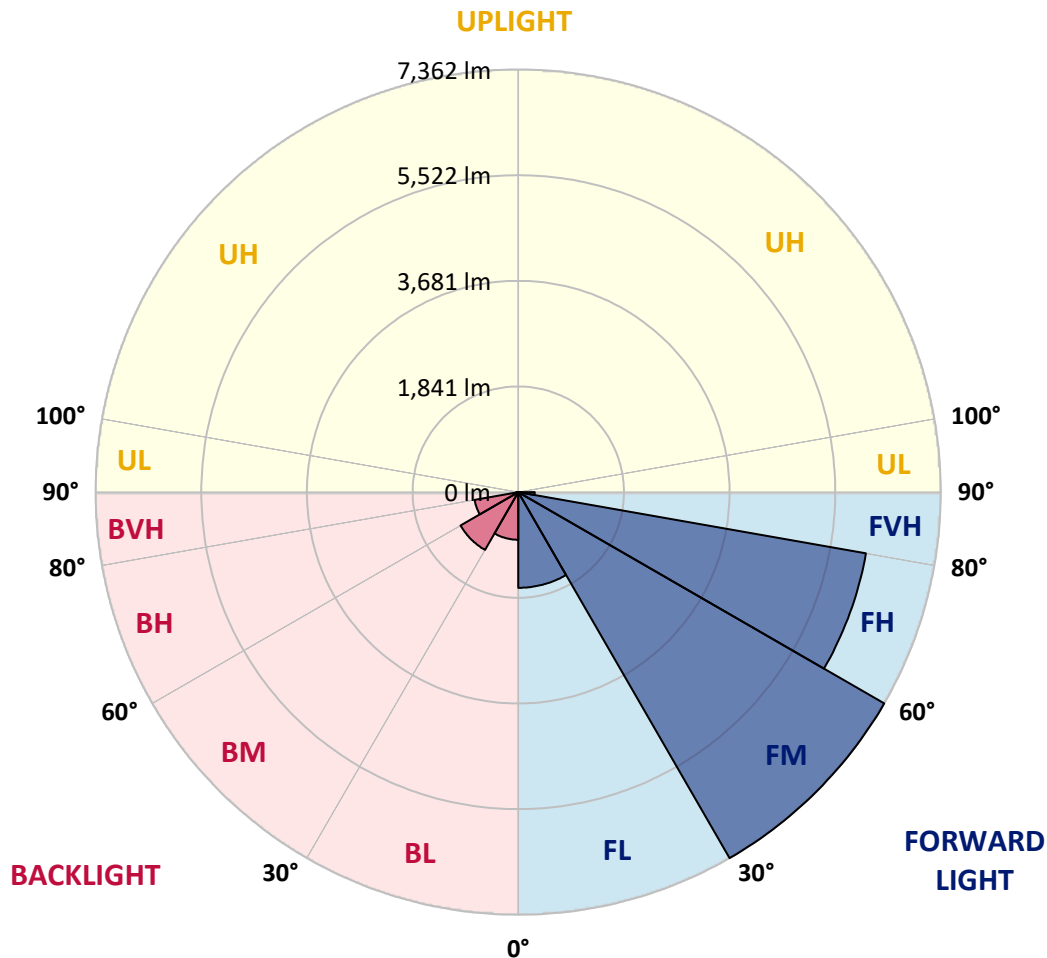
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.9	9.1			
FM (30°-60°)	7362.0	40.3			
FH (60°-80°)	6149.6	33.7			G3/7500
FVH (80°-90°)	288.0	1.6			G3/500
BL (0°-30°)	829.7	4.5	B2/1000		
BM (30°-60°)	1161.1	6.4	B2/2500		
BH (60°-80°)	772.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	38.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5
2.5°	5159.1	5167.3	5167.3	5183.8	5128.3	5155.0	5150.9	5126.2	5134.5	5091.3	5048.1
5°	5013.2	5007.0	5039.9	5044.0	5087.2	5099.5	5109.8	5093.3	5097.5	5002.9	4961.8
7.5°	4639.1	4637.0	4692.5	4739.8	4830.3	4914.5	4970.0	4953.6	4976.2	4916.6	4820.0
10°	4195.1	4242.4	4300.0	4347.2	4513.7	4620.6	4764.5	4778.9	4865.2	4850.8	4676.1
12.5°	3862.1	3882.7	3925.9	4061.5	4213.6	4390.4	4595.9	4614.4	4698.7	4739.8	4587.7
15°	3588.8	3607.3	3662.8	3763.5	3934.1	4143.7	4404.8	4452.1	4620.6	4635.0	4472.6
17.5°	3389.4	3403.8	3440.8	3541.5	3681.3	3950.5	4197.2	4281.5	4503.4	4573.3	4353.4
20°	3311.3	3280.5	3301.0	3364.7	3504.5	3712.1	4030.7	4104.7	4388.3	4526.1	4240.3
22.5°	3276.4	3249.6	3262.0	3257.9	3368.8	3516.8	3851.9	3930.0	4279.4	4470.6	4139.6
25°	3303.1	3303.1	3290.7	3280.5	3292.8	3389.4	3658.7	3779.9	4133.5	4423.3	4036.9
27.5°	3447.0	3391.5	3397.6	3354.5	3342.1	3342.1	3572.3	3644.3	4086.2	4396.6	3952.6
30°	3539.4	3566.2	3568.2	3504.5	3440.8	3325.7	3492.2	3562.1	4047.1	4429.4	3903.3
32.5°	3775.8	3763.5	3728.5	3716.2	3621.7	3492.2	3531.2	3578.5	4024.5	4503.4	3917.6
35°	4012.2	4006.0	4008.1	4001.9	3903.3	3712.1	3636.1	3699.8	4065.6	4632.9	3967.0
37.5°	4256.8	4273.2	4343.1	4343.1	4238.3	4030.7	3930.0	3911.5	4215.7	4844.6	4084.1
40°	4501.4	4542.5	4630.9	4770.6	4622.7	4429.4	4267.1	4238.3	4396.6	5128.3	4365.7
42.5°	4735.7	4803.5	4978.2	5185.8	5136.5	4943.3	4727.5	4694.6	4768.6	5549.7	4758.3
45°	5035.8	5093.3	5368.8	5687.4	5755.2	5584.6	5331.8	5305.1	5300.9	6166.3	5298.9
47.5°	5492.1	5553.8	5829.2	6149.8	6359.5	6386.2	6102.6	6073.8	5975.1	6998.7	6090.2
50°	6063.5	6164.2	6396.5	6770.6	7074.8	7360.5	7280.3	7196.1	7002.8	7966.8	7093.3
52.5°	6480.8	6604.1	6918.6	7397.5	7934.0	8388.2	8676.0	8676.0	8232.0	9029.5	8299.8
55°	6591.8	6665.8	7062.4	7755.1	8673.9	9822.9	10425.1	10379.9	9695.5	10147.6	9703.7
57.5°	6149.8	6246.4	6727.4	7453.0	9062.4	11165.1	12162.0	12172.2	11294.6	11446.7	11089.0
60°	4933.0	4963.9	5531.2	6501.3	8688.3	12246.2	14533.9	14573.0	13113.6	12603.9	11794.0
62.5°	3410.0	3508.6	3936.1	4787.1	7198.1	12125.0	16821.6	17014.8	14570.9	13214.3	11905.0
65°	2244.5	2304.1	2532.3	3050.3	5011.1	10509.4	17532.8	18128.9	15685.0	13249.3	11440.5
67.5°	1627.9	1638.2	1706.0	1973.2	3011.2	7557.8	16318.0	17158.7	16102.2	12957.4	10351.1
70°	1315.5	1323.7	1348.4	1519.0	1944.4	4729.5	13308.9	14626.4	14850.5	11574.1	8336.8
72.5°	1068.8	1079.1	1109.9	1270.3	1603.2	2630.9	9732.4	11337.7	12079.7	8562.9	5541.4
75°	840.7	848.9	922.9	1081.2	1506.6	1806.7	6456.1	8028.5	8129.2	5005.0	2593.9
77.5°	575.5	589.9	680.3	916.7	1418.2	1580.6	4024.5	5142.7	4614.4	1958.8	892.1
80°	365.9	386.4	439.9	694.7	1253.8	1508.7	2503.5	3070.8	2020.5	670.1	429.6
82.5°	215.8	236.4	289.8	450.1	984.5	1399.7	1763.6	1921.8	947.6	343.3	259.0
85°	119.2	133.6	174.7	271.3	577.6	1243.5	1412.1	1379.2	542.6	182.9	162.4
87.5°	39.1	45.2	63.7	108.9	238.4	585.8	846.8	795.5	281.6	84.3	63.7
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°	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5
2.5°	5019.4	5013.2	4920.7	4850.8	4731.6	4632.9	4593.9	4540.4	4538.4	4499.3	4489.1
5°	4898.1	4834.4	4692.5	4556.9	4345.2	4203.3	4073.9	3983.4	3946.4	3866.3	3847.8
7.5°	4741.9	4657.6	4439.7	4184.9	3936.1	3714.2	3512.7	3311.3	3198.2	3159.2	3116.0
10°	4579.5	4431.5	4108.8	3823.1	3475.7	3134.5	2818.0	2534.3	2380.2	2271.2	2224.0
12.5°	4450.0	4252.7	3841.6	3414.1	2955.7	2499.4	2131.5	1833.4	1658.7	1576.5	1539.5
15°	4304.1	4043.0	3549.7	3009.1	2437.7	1919.8	1560.1	1325.8	1255.9	1216.8	1210.6
17.5°	4149.9	3847.8	3233.2	2610.4	1932.1	1445.0	1212.7	1118.2	1087.3	1070.9	1062.7
20°	4006.0	3673.0	2908.4	2166.4	1512.8	1159.3	1050.3	1001.0	998.9	1007.2	1005.1
22.5°	3802.5	3444.9	2587.8	1755.3	1208.6	1009.2	939.3	927.0	939.3	949.6	953.7
25°	3687.4	3257.9	2230.1	1393.6	998.9	896.2	873.6	869.4	887.9	900.3	898.2
27.5°	3568.2	3064.6	1897.2	1116.1	875.6	816.0	811.9	816.0	834.5	853.0	850.9
30°	3475.7	2910.5	1584.7	933.2	781.1	758.5	754.3	758.5	768.7	770.8	770.8
32.5°	3399.7	2727.6	1319.6	809.8	723.5	705.0	709.1	707.1	709.1	711.2	713.2
35°	3354.5	2618.6	1101.7	733.8	676.2	661.8	659.8	653.6	655.7	657.7	655.7
37.5°	3451.1	2565.2	929.1	680.3	643.3	631.0	626.9	622.8	616.6	616.6	616.6
40°	3597.0	2536.4	824.2	645.4	618.7	604.3	592.0	587.9	587.9	589.9	592.0
42.5°	3886.8	2583.7	752.3	618.7	587.9	571.4	559.1	561.1	567.3	573.5	569.4
45°	4306.1	2727.6	719.4	598.1	569.4	546.7	538.5	536.5	542.6	552.9	561.1
47.5°	4854.9	2951.6	707.1	579.6	557.0	526.2	515.9	522.1	530.3	544.7	538.5
50°	5753.1	3455.2	717.3	563.2	538.5	515.9	503.6	497.4	503.6	513.9	518.0
52.5°	6926.8	4369.8	756.4	555.0	526.2	507.7	487.1	476.9	483.0	491.2	491.2
55°	8330.6	5619.5	865.3	544.7	505.6	495.4	472.7	452.2	456.3	456.3	454.2
57.5°	9568.0	6563.0	994.8	530.3	493.3	478.9	450.1	425.5	421.4	423.4	425.5
60°	10123.0	6813.7	1056.5	526.2	493.3	458.4	419.3	394.6	388.5	384.4	384.4
62.5°	10026.4	6380.0	931.1	507.7	505.6	441.9	390.5	363.8	355.6	347.4	349.4
65°	9442.6	5761.4	733.8	483.0	507.7	431.6	361.8	335.0	320.6	310.4	308.3
67.5°	8375.9	4918.6	581.7	464.5	487.1	413.1	337.1	306.3	293.9	283.6	279.5
70°	6552.7	3856.0	505.6	439.9	437.8	367.9	308.3	281.6	263.1	250.8	250.8
72.5°	4248.6	2437.7	433.7	390.5	378.2	308.3	267.2	250.8	236.4	226.1	226.1
75°	1923.9	1132.5	349.4	326.8	308.3	246.7	226.1	217.9	205.5	195.3	195.3
77.5°	690.6	483.0	261.0	256.9	230.2	191.2	182.9	176.8	168.5	158.3	158.3
80°	386.4	306.3	195.3	187.0	160.3	141.8	131.5	131.5	127.4	121.3	119.2
82.5°	244.6	199.4	143.9	125.4	104.8	94.5	90.4	88.4	86.3	78.1	76.1
85°	154.2	135.7	94.5	74.0	61.7	47.3	45.2	43.2	39.1	34.9	34.9
87.5°	69.9	78.1	37.0	22.6	16.4	10.3	6.2	2.1	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)