

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: P480616

Luminaire Tested: **IFLD-S-SA3D-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480616
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

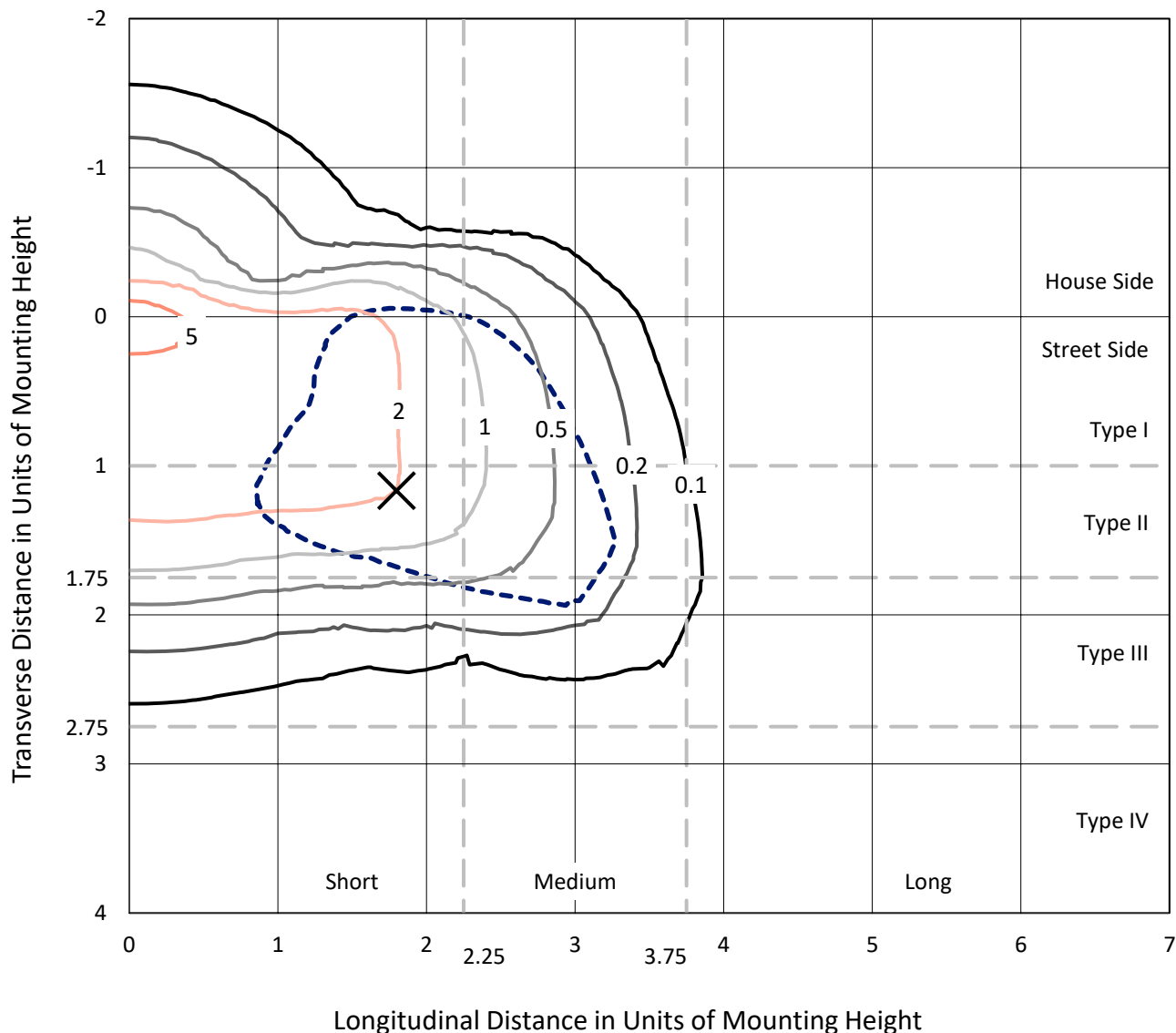
Lumens per Lamp: N/A
Luminaire Lumens: 16905.6 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

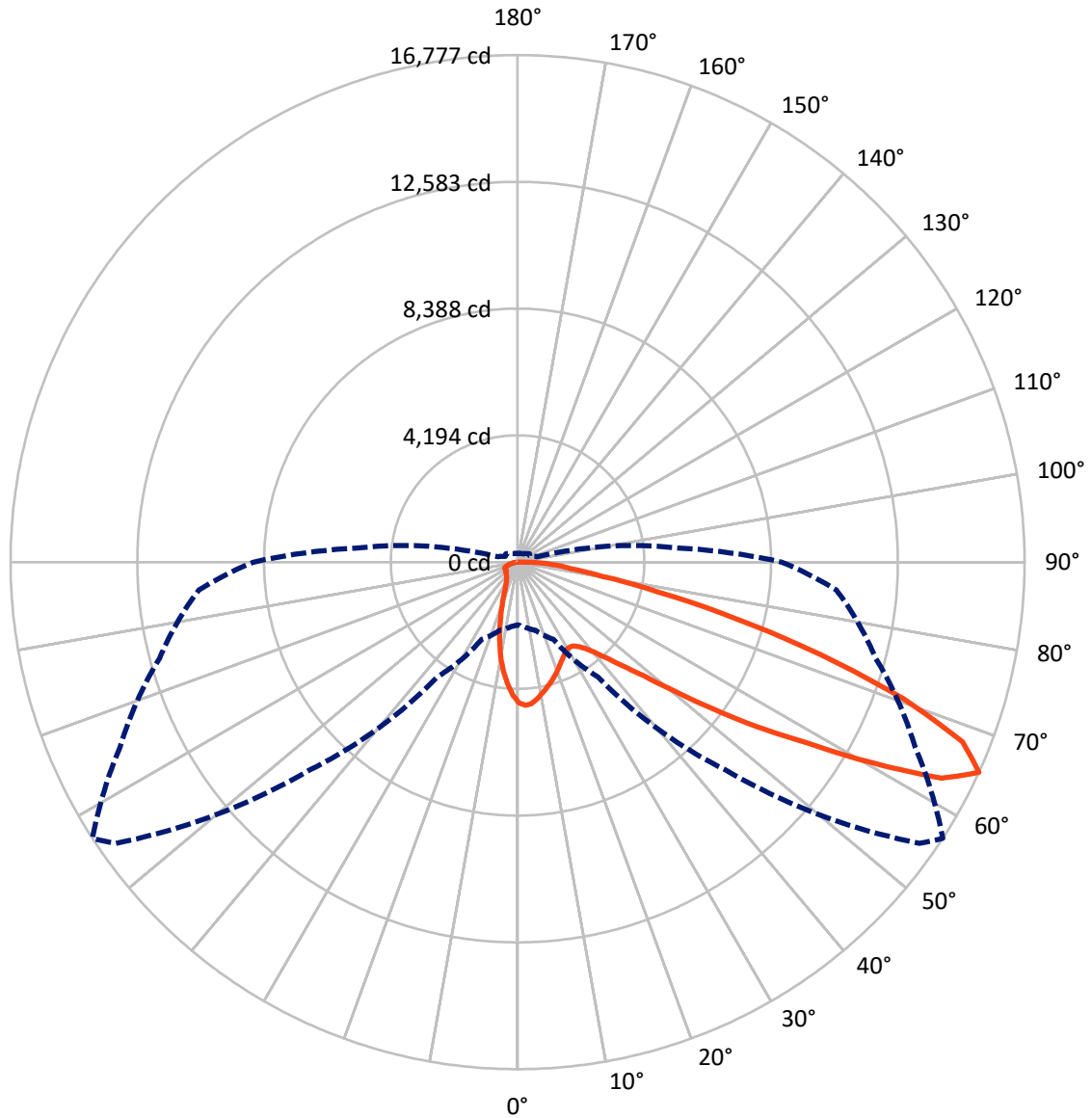
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	2592.6	0.0	2592.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14312.9	0.0	14312.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	16905.6	0.0	16905.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	2.3
10°-20°	837.8	5.0
20°-30°	1083.2	6.4
30°-40°	1457.7	8.6
40°-50°	2324.4	13.7
50°-60°	4105.4	24.3
60°-70°	4516.5	26.7
70°-80°	1889.3	11.2
80°-90°	301.9	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°	16905.6	100.0
0°-180°	16905.6	100.0

Coefficient of Utilization



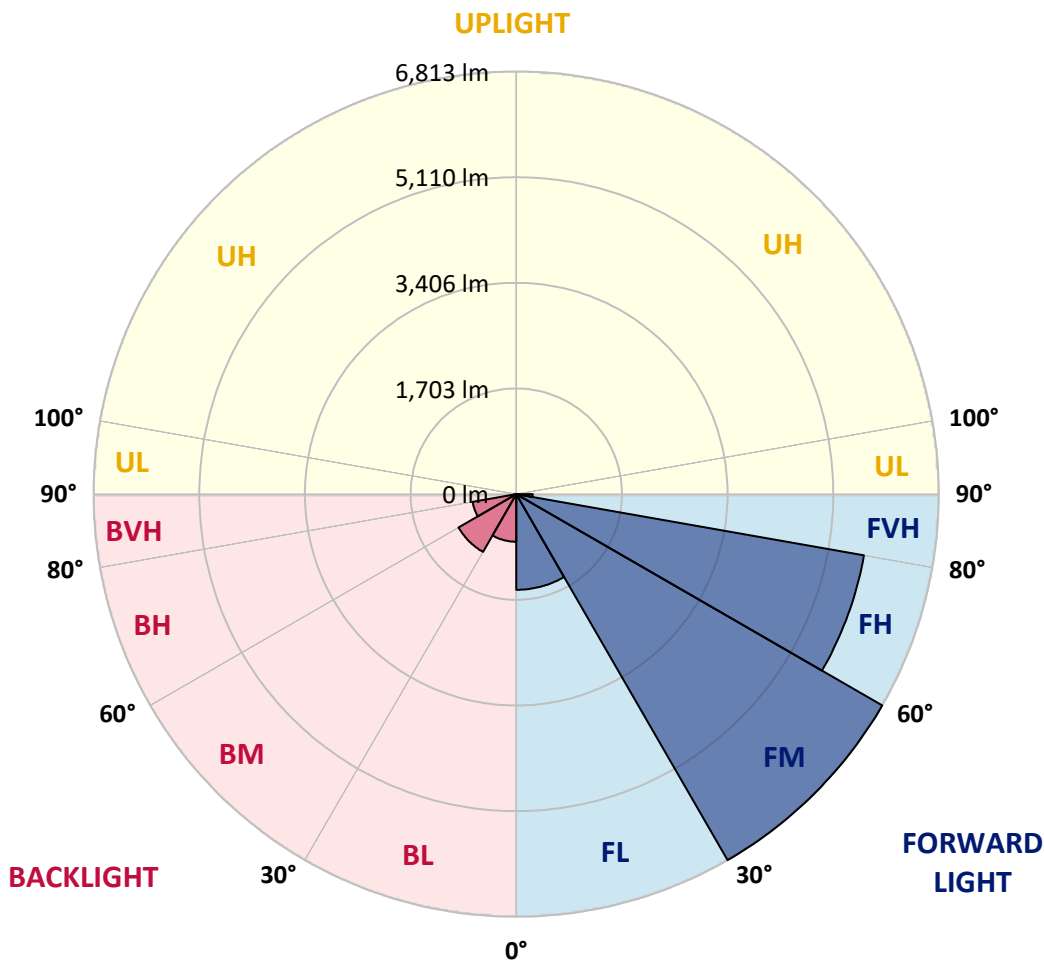
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.6	9.1			
FM (30°-60°)	6812.9	40.3			
FH (60°-80°)	5690.9	33.7			G3/7500
FVH (80°-90°)	266.5	1.6			G3/500
BL (0°-30°)	767.8	4.5	B2/1000		
BM (30°-60°)	1074.5	6.4	B2/2500		
BH (60°-80°)	714.9	4.2	B2/1000		G2/1000
BVH (80°-90°)	35.4	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°	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8
2.5°	4774.3	4781.9	4781.9	4797.2	4745.8	4770.5	4766.7	4743.9	4751.5	4711.6	4671.6
5°	4639.3	4633.6	4664.0	4667.8	4707.8	4719.2	4728.7	4713.5	4717.3	4629.8	4591.7
7.5°	4293.1	4291.2	4342.5	4386.3	4470.0	4548.0	4599.3	4584.1	4605.0	4549.9	4460.5
10°	3882.2	3926.0	3979.2	4023.0	4177.1	4276.0	4409.1	4422.4	4502.3	4489.0	4327.3
12.5°	3574.1	3593.1	3633.1	3758.6	3899.4	4062.9	4253.1	4270.3	4348.3	4386.3	4245.5
15°	3321.1	3338.2	3389.6	3482.8	3640.7	3834.7	4076.2	4120.0	4276.0	4289.3	4139.0
17.5°	3136.6	3149.9	3184.2	3277.4	3406.7	3655.9	3884.1	3962.1	4167.6	4232.2	4028.7
20°	3064.3	3035.8	3054.8	3113.8	3243.1	3435.2	3730.1	3798.5	4061.0	4188.5	3924.1
22.5°	3032.0	3007.3	3018.7	3014.9	3117.6	3254.5	3564.6	3636.9	3960.2	4137.1	3830.9
25°	3056.7	3056.7	3045.3	3035.8	3047.2	3136.6	3385.8	3498.0	3825.2	4093.4	3735.8
27.5°	3189.9	3138.5	3144.2	3104.3	3092.9	3092.9	3305.9	3372.5	3781.4	4068.6	3657.8
30°	3275.5	3300.2	3302.1	3243.1	3184.2	3077.6	3231.7	3296.4	3745.3	4099.1	3612.1
32.5°	3494.2	3482.8	3450.5	3439.0	3351.5	3231.7	3267.8	3311.6	3724.4	4167.6	3625.4
35°	3712.9	3707.2	3709.1	3703.4	3612.1	3435.2	3364.9	3423.8	3762.4	4287.4	3671.1
37.5°	3939.3	3954.5	4019.2	4019.2	3922.2	3730.1	3636.9	3619.7	3901.3	4483.3	3779.5
40°	4165.6	4203.7	4285.5	4414.8	4277.9	4099.1	3948.8	3922.2	4068.6	4745.8	4040.1
42.5°	4382.5	4445.3	4606.9	4799.1	4753.4	4574.6	4374.9	4344.4	4412.9	5135.7	4403.4
45°	4660.2	4713.5	4968.3	5263.2	5325.9	5168.1	4934.1	4909.4	4905.6	5706.4	4903.7
47.5°	5082.5	5139.5	5394.4	5691.2	5885.2	5909.9	5647.4	5620.8	5529.5	6476.7	5636.0
50°	5611.3	5704.5	5919.4	6265.6	6547.1	6811.5	6737.3	6659.3	6480.5	7372.6	6564.2
52.5°	5997.4	6111.5	6402.5	6845.7	7342.2	7762.6	8028.9	8028.9	7618.0	8356.0	7680.8
55°	6100.1	6168.6	6535.7	7176.7	8027.0	9090.2	9647.6	9605.7	8972.3	9390.8	8979.9
57.5°	5691.2	5780.6	6225.6	6897.1	8386.5	10332.3	11254.9	11264.4	10452.2	10592.9	10262.0
60°	4565.1	4593.6	5118.6	6016.4	8040.3	11332.8	13449.9	13486.1	12135.5	11663.8	10914.4
62.5°	3155.6	3246.9	3642.6	4430.0	6661.2	11220.6	15567.0	15745.8	13484.2	12228.7	11017.1
65°	2077.1	2132.3	2343.4	2822.8	4637.4	9725.6	16225.1	16776.7	14515.1	12261.1	10587.2
67.5°	1506.5	1516.0	1578.8	1826.0	2786.6	6994.1	15101.0	15878.9	14901.2	11991.0	9579.1
70°	1217.4	1225.0	1247.8	1405.7	1799.4	4376.8	12316.2	13535.5	13742.8	10710.9	7715.0
72.5°	989.1	998.6	1027.1	1175.5	1483.7	2434.7	9006.6	10492.1	11178.8	7924.2	5128.1
75°	778.0	785.6	854.1	1000.5	1394.3	1672.0	5974.6	7429.7	7522.9	4631.7	2400.5
77.5°	532.6	545.9	629.6	848.3	1312.5	1462.7	3724.4	4759.1	4270.3	1812.7	825.5
80°	338.6	357.6	407.1	642.9	1160.3	1396.2	2316.8	2841.8	1869.8	620.1	397.5
82.5°	199.7	218.7	268.2	416.6	911.1	1295.3	1632.0	1778.5	876.9	317.7	239.7
85°	110.3	123.6	161.7	251.1	534.5	1150.8	1306.8	1276.3	502.2	169.3	150.3
87.5°	36.1	41.8	59.0	100.8	220.6	542.1	783.7	736.1	260.6	78.0	59.0
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°	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8	4648.8
2.5°	4645.0	4639.3	4553.7	4489.0	4378.7	4287.4	4251.2	4201.8	4199.9	4163.7	4154.2
5°	4532.8	4473.8	4342.5	4217.0	4021.1	3889.8	3770.0	3686.3	3652.1	3577.9	3560.8
7.5°	4388.2	4310.2	4108.6	3872.7	3642.6	3437.1	3250.7	3064.3	2959.7	2923.6	2883.6
10°	4237.9	4101.0	3802.3	3537.9	3216.5	2900.7	2607.8	2345.3	2202.7	2101.8	2058.1
12.5°	4118.1	3935.5	3555.1	3159.4	2735.3	2313.0	1972.5	1696.7	1535.0	1458.9	1424.7
15°	3983.0	3741.5	3285.0	2784.7	2255.9	1776.6	1443.7	1226.9	1162.2	1126.1	1120.4
17.5°	3840.4	3560.8	2992.0	2415.7	1788.0	1337.2	1122.3	1034.8	1006.2	991.0	983.4
20°	3707.2	3399.1	2691.5	2004.8	1400.0	1072.8	972.0	926.3	924.4	932.0	930.1
22.5°	3518.9	3188.0	2394.8	1624.4	1118.4	933.9	869.3	857.9	869.3	878.8	882.6
25°	3412.4	3014.9	2063.8	1289.6	924.4	829.3	808.4	804.6	821.7	833.1	831.2
27.5°	3302.1	2836.1	1755.7	1032.9	810.3	755.1	751.3	755.1	772.3	789.4	787.5
30°	3216.5	2693.4	1466.5	863.6	722.8	701.9	698.1	701.9	711.4	713.3	713.3
32.5°	3146.1	2524.1	1221.2	749.4	669.5	652.4	656.2	654.3	656.2	658.1	660.0
35°	3104.3	2423.3	1019.5	679.1	625.8	612.5	610.6	604.9	606.8	608.7	606.8
37.5°	3193.7	2373.8	859.8	629.6	595.4	584.0	580.1	576.3	570.6	570.6	570.6
40°	3328.7	2347.2	762.8	597.3	572.5	559.2	547.8	544.0	544.0	545.9	547.8
42.5°	3596.9	2391.0	696.2	572.5	544.0	528.8	517.4	519.3	525.0	530.7	526.9
45°	3984.9	2524.1	665.7	553.5	526.9	506.0	498.4	496.5	502.2	511.7	519.3
47.5°	4492.8	2731.4	654.3	536.4	515.5	486.9	477.4	483.1	490.7	504.1	498.4
50°	5324.0	3197.5	663.8	521.2	498.4	477.4	466.0	460.3	466.0	475.5	479.3
52.5°	6410.2	4043.9	700.0	513.6	486.9	469.8	450.8	441.3	447.0	454.6	454.6
55°	7709.3	5200.4	800.8	504.1	467.9	458.4	437.5	418.5	422.3	422.3	420.4
57.5°	8854.4	6073.5	920.6	490.7	456.5	443.2	416.6	393.7	389.9	391.8	393.7
60°	9368.0	6305.5	977.7	486.9	456.5	424.2	388.0	365.2	359.5	355.7	355.7
62.5°	9278.6	5904.2	861.7	469.8	467.9	409.0	361.4	336.7	329.1	321.5	323.4
65°	8738.4	5331.7	679.1	447.0	469.8	399.4	334.8	310.0	296.7	287.2	285.3
67.5°	7751.2	4551.8	538.3	429.9	450.8	382.3	311.9	283.4	272.0	262.5	258.7
70°	6064.0	3568.4	467.9	407.1	405.2	340.5	285.3	260.6	243.5	232.1	232.1
72.5°	3931.7	2255.9	401.3	361.4	350.0	285.3	247.3	232.1	218.7	209.2	209.2
75°	1780.4	1048.1	323.4	302.4	285.3	228.3	209.2	201.6	190.2	180.7	180.7
77.5°	639.1	447.0	241.6	237.8	213.0	176.9	169.3	163.6	156.0	146.5	146.5
80°	357.6	283.4	180.7	173.1	148.4	131.2	121.7	121.7	117.9	112.2	110.3
82.5°	226.4	184.5	133.1	116.0	97.0	87.5	83.7	81.8	79.9	72.3	70.4
85°	142.7	125.5	87.5	68.5	57.1	43.7	41.8	39.9	36.1	32.3	32.3
87.5°	64.7	72.3	34.2	20.9	15.2	9.5	5.7	1.9	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)