

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: P481222

Luminaire Tested: **IFLD-M-SA4E-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481222
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

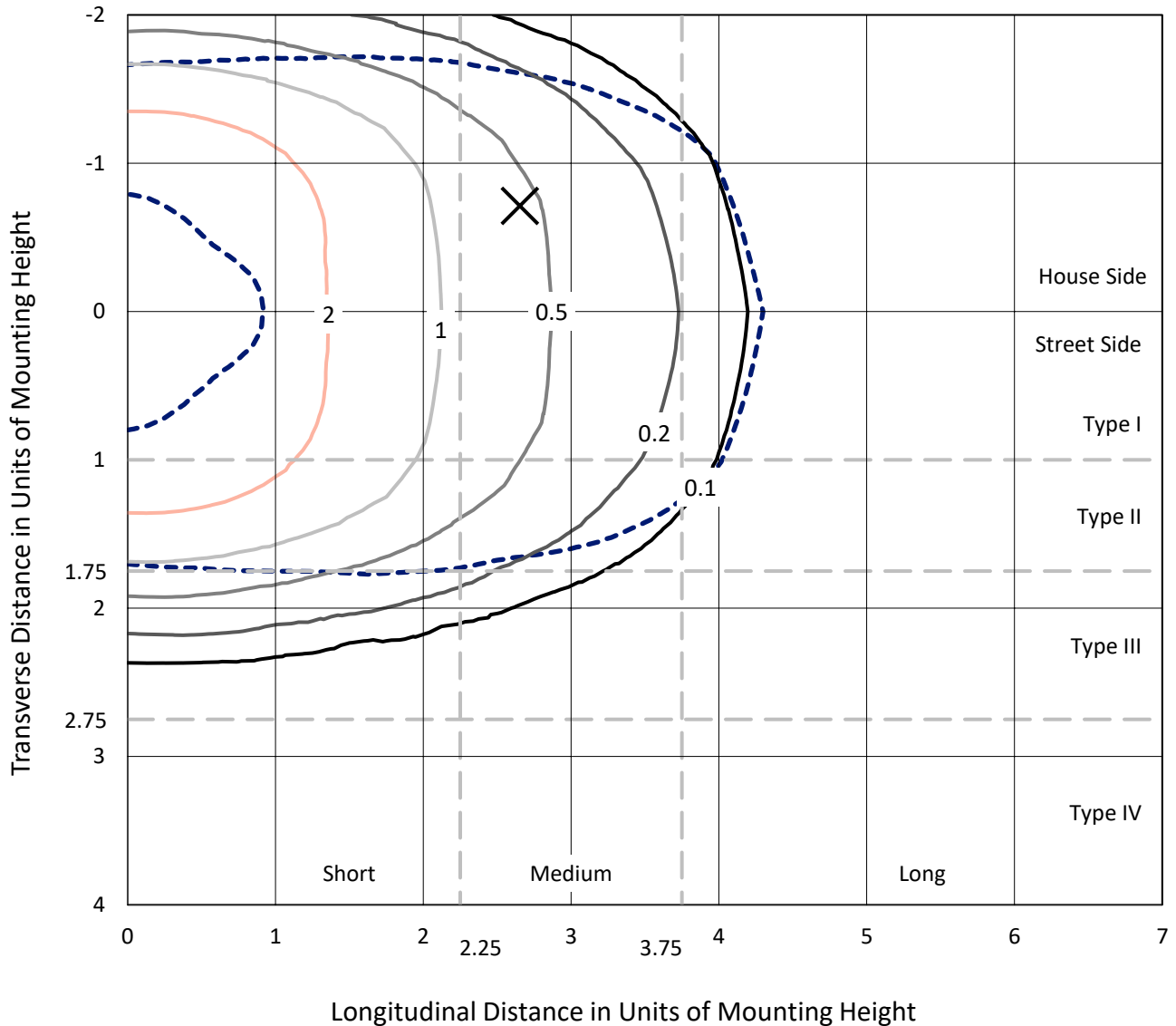
Lumens per Lamp: N/A
Luminaire Lumens: 33957.8 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 314.8
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

REPORT NUMBER: P481222
 CATALOG NUMBER: IFLD-M-SA4E-730-U-RW

Iso-Footcandle Lines of Horizontal Illumination

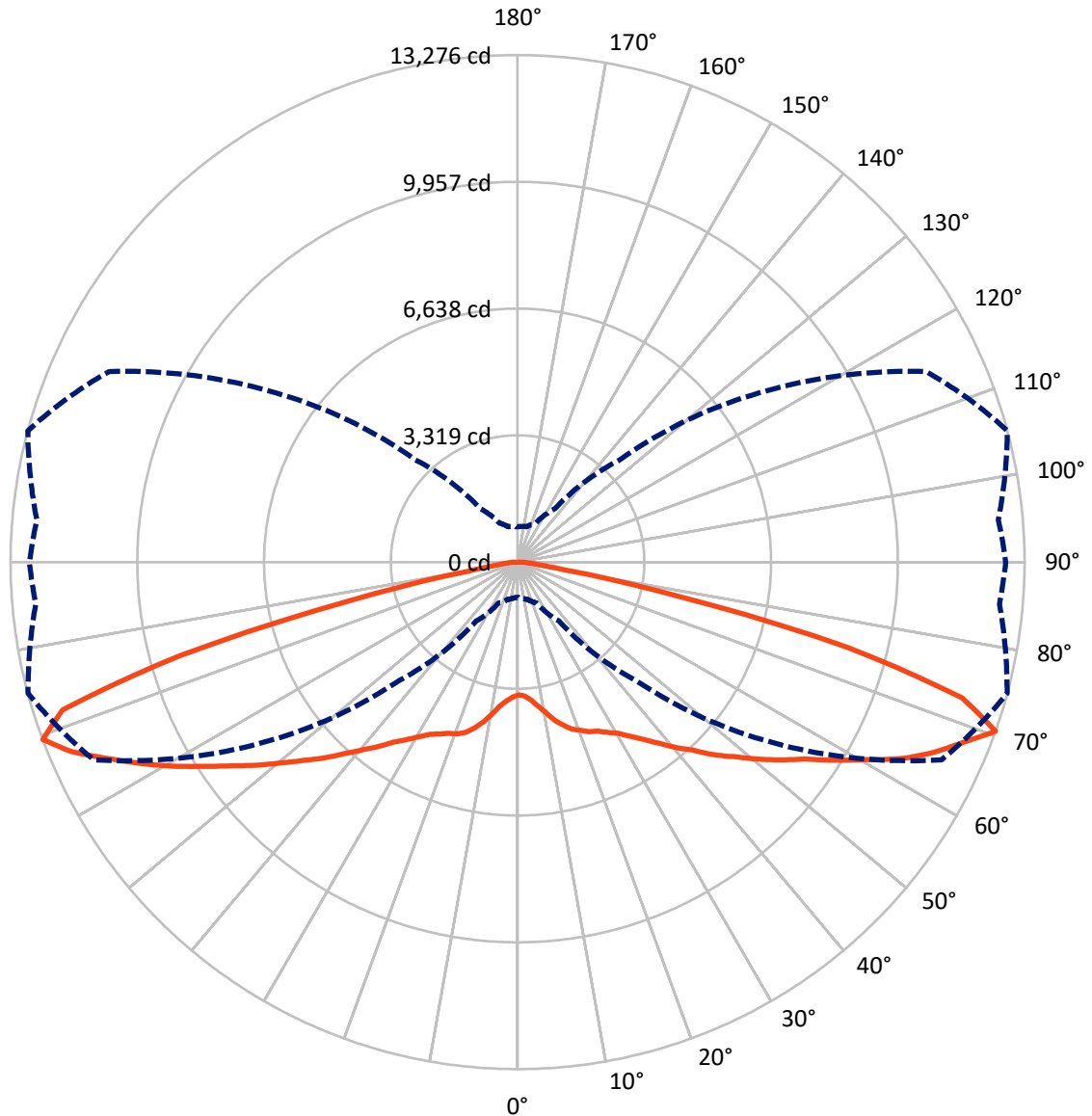
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481222
CATALOG NUMBER: IFLD-M-SA4E-730-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16858.1	0.0	16858.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17099.7	0.0	17099.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	33957.8	0.0	33957.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	1.0
10°-20°	1178.5	3.5
20°-30°	2281.9	6.7
30°-40°	3859.6	11.4
40°-50°	6157.2	18.1
50°-60°	8427.9	24.8
60°-70°	7943.9	23.4
70°-80°	3499.5	10.3
80°-90°	263.3	0.8
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°	33957.8	100.0
0°-180°	33957.8	100.0

Coefficient of Utilization



REPORT NUMBER: P481222

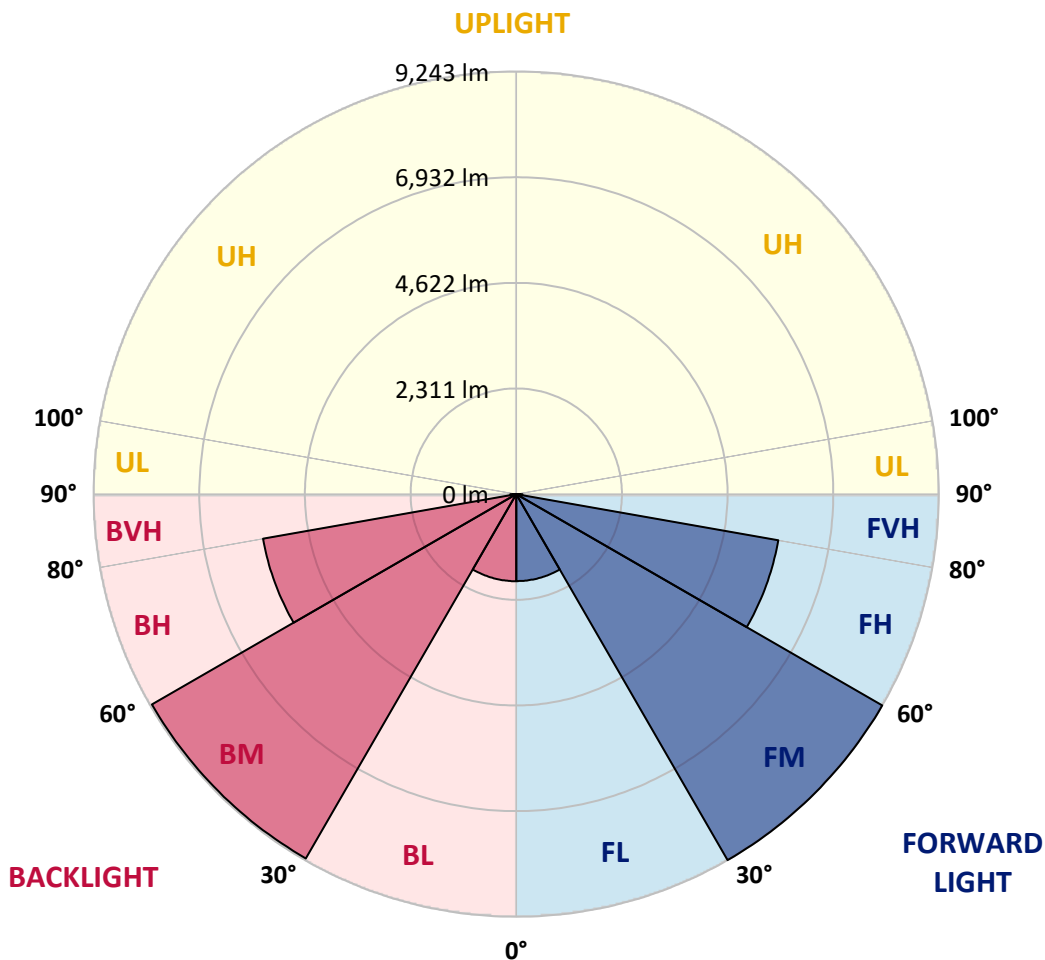
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.2	5.6			
FM (30°-60°)	9243.0	27.2			
FH (60°-80°)	5820.0	17.1			G3/7500
FVH (80°-90°)	134.5	0.4			G2/225
BL (0°-30°)	1904.3	5.6	B3/2500		
BM (30°-60°)	9201.7	27.1	B5		
BH (60°-80°)	5623.4	16.6	B5		G5
BVH (80°-90°)	128.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





REPORT NUMBER: P481222

CATALOG NUMBER: IFLD-M-SA4E-730-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2
2.5°	3455.3	3455.3	3451.6	3469.9	3488.2	3495.6	3510.2	3513.9	3535.8	3517.5	3554.1
5°	3444.3	3440.6	3469.9	3513.9	3513.9	3561.4	3590.7	3631.0	3642.0	3663.9	3671.2
7.5°	3521.2	3513.9	3499.2	3546.8	3587.1	3660.3	3700.5	3770.1	3795.7	3825.0	3857.9
10°	3568.8	3568.8	3554.1	3638.3	3674.9	3773.7	3861.6	3931.1	4029.9	4062.9	4066.6
12.5°	3576.1	3587.1	3631.0	3740.8	3843.3	3971.4	4037.3	4169.0	4267.9	4330.1	4352.1
15°	3685.9	3663.9	3711.5	3861.6	4011.6	4125.1	4242.2	4337.4	4480.2	4560.7	4611.9
17.5°	3784.7	3762.7	3850.6	4029.9	4183.7	4359.4	4461.9	4564.3	4666.8	4740.0	4743.7
20°	3942.1	3960.4	4037.3	4231.3	4432.6	4586.3	4703.4	4721.7	4773.0	4879.1	4860.8
22.5°	4136.1	4121.5	4282.5	4494.8	4714.4	4842.5	4908.4	4860.8	4835.2	4948.7	4974.3
25°	4330.1	4374.0	4520.4	4718.1	4981.6	5153.6	5172.0	5040.2	4945.0	4985.3	4974.3
27.5°	4626.6	4633.9	4787.6	5021.9	5289.1	5439.1	5428.2	5241.5	5058.5	5062.1	5069.5
30°	5007.2	4970.6	5139.0	5351.3	5614.8	5750.3	5768.6	5501.4	5256.1	5182.9	5201.2
32.5°	5373.3	5417.2	5563.6	5805.2	5999.2	6076.0	6035.8	5797.9	5479.4	5380.6	5391.6
35°	5841.8	5834.5	6035.8	6240.7	6387.2	6401.8	6368.9	6021.1	5721.0	5592.9	5541.6
37.5°	6343.2	6409.1	6540.9	6709.3	6863.0	6870.3	6691.0	6412.8	6043.1	5830.8	5893.0
40°	6903.3	6976.5	7071.6	7316.9	7430.3	7313.2	7130.2	6753.2	6368.9	6182.2	6211.5
42.5°	7397.4	7430.3	7624.3	7913.5	7968.4	7917.1	7646.3	7188.8	6742.2	6537.2	6551.9
45°	7851.3	7895.2	8147.7	8407.6	8535.7	8447.9	8133.1	7697.5	7177.8	7002.1	6932.5
47.5°	8268.5	8356.4	8601.6	8868.8	9066.5	9073.8	8685.8	8158.7	7609.7	7379.1	7375.4
50°	8550.4	8678.5	8920.1	9223.9	9513.0	9626.5	9238.5	8671.2	8081.9	7836.6	7811.0
52.5°	8704.1	8835.9	9077.5	9549.6	9871.7	10047.4	9864.4	9150.7	8634.6	8378.3	8338.1
55°	8517.4	8605.3	9000.6	9663.1	10160.9	10450.0	10329.3	9813.2	9183.6	8975.0	9011.6
57.5°	7723.2	7906.2	8393.0	9220.2	10153.6	10863.7	10852.7	10439.1	9816.8	9619.2	9626.5
60°	6357.9	6511.6	7111.9	8268.5	9743.6	11032.0	11420.0	11046.7	10526.9	10296.3	10289.0
62.5°	4487.5	4681.5	5376.9	6639.7	8535.7	10797.8	12071.5	11811.7	11222.4	11054.0	11116.2
65°	2510.9	2628.1	3272.3	4414.3	6504.3	9509.4	12188.7	12605.9	11928.8	11672.6	11683.6
67.5°	1343.3	1387.2	1687.4	2316.9	3978.7	7331.5	11006.4	13063.5	12693.8	12250.9	12181.4
70°	922.4	937.0	1013.9	1185.9	1881.4	4385.0	8301.5	12247.2	13268.5	12664.5	12781.6
72.5°	779.6	772.3	790.6	808.9	984.6	1961.9	4871.8	9425.2	12525.4	12298.5	12254.6
75°	677.1	673.5	680.8	662.5	684.5	863.8	2155.9	5874.7	9169.0	10234.1	10398.8
77.5°	560.0	563.7	567.3	549.0	541.7	571.0	867.5	2580.5	4513.1	4981.6	5373.3
80°	424.6	431.9	461.2	442.9	413.6	417.3	512.4	863.8	1295.7	1174.9	1211.5
82.5°	289.2	292.8	355.0	333.1	311.1	281.8	329.4	446.6	505.1	384.3	336.7
85°	205.0	201.3	230.6	212.3	197.7	142.8	197.7	252.6	303.8	190.3	172.0
87.5°	47.6	47.6	95.2	76.9	73.2	58.6	76.9	98.8	131.8	84.2	76.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481222
 CATALOG NUMBER: IFLD-M-SA4E-730-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2	3477.2
2.5°	3543.1	3510.2	3510.2	3502.9	3473.6	3466.3	3440.6	3448.0	3429.7	3411.4
5°	3667.6	3623.7	3623.7	3561.4	3502.9	3495.6	3466.3	3466.3	3437.0	3444.3
7.5°	3839.6	3799.4	3733.5	3678.6	3598.0	3565.1	3510.2	3502.9	3495.6	3480.9
10°	4044.6	3993.3	3927.5	3814.0	3748.1	3685.9	3631.0	3554.1	3535.8	3539.5
12.5°	4322.8	4242.2	4099.5	4000.7	3916.5	3836.0	3755.4	3642.0	3616.3	3627.3
15°	4520.4	4417.9	4275.2	4238.6	4125.1	4026.3	3894.5	3766.4	3722.5	3711.5
17.5°	4681.5	4597.3	4513.1	4458.2	4366.7	4245.9	4062.9	3916.5	3817.7	3806.7
20°	4813.2	4703.4	4685.1	4718.1	4604.6	4524.1	4300.8	4121.5	3989.7	3934.8
22.5°	4893.8	4824.2	4875.5	4904.8	4897.4	4762.0	4531.4	4322.8	4158.1	4106.8
25°	4981.6	4901.1	5084.1	5182.9	5208.6	4985.3	4805.9	4531.4	4370.4	4337.4
27.5°	5025.5	5054.8	5267.1	5475.8	5457.5	5285.4	5043.8	4798.6	4670.5	4611.9
30°	5153.6	5201.2	5523.3	5757.6	5761.3	5592.9	5409.9	5131.7	4988.9	4963.3
32.5°	5384.2	5442.8	5786.9	6035.8	6079.7	5951.6	5768.6	5596.5	5450.1	5391.6
35°	5559.9	5710.0	6098.0	6324.9	6442.1	6365.2	6262.7	6083.4	5929.6	5878.4
37.5°	5812.5	6021.1	6394.5	6701.9	6833.7	6826.4	6749.5	6555.5	6427.4	6383.5
40°	6174.9	6383.5	6723.9	7130.2	7375.4	7364.4	7320.5	7170.5	6980.1	6958.2
42.5°	6559.2	6731.2	7174.1	7639.0	7990.4	7953.7	7836.6	7660.9	7529.2	7499.9
45°	6932.5	7199.7	7609.7	8206.3	8469.8	8561.4	8422.3	8122.1	7972.1	7953.7
47.5°	7401.0	7613.3	8125.8	8660.2	9051.8	9066.5	8828.6	8550.4	8275.9	8334.4
50°	7818.3	8100.2	8619.9	9205.6	9674.1	9505.7	9201.9	8854.2	8656.5	8579.7
52.5°	8264.9	8608.9	9212.9	9809.5	10069.4	9901.0	9406.9	9018.9	8718.7	8685.8
55°	8916.4	9095.8	9886.4	10343.9	10428.1	10073.0	9344.6	8795.6	8407.6	8312.5
57.5°	9578.9	9787.5	10479.3	10874.6	10786.8	9977.9	8942.0	8092.8	7584.1	7448.6
60°	10248.7	10505.0	11086.9	11449.3	10995.4	9322.7	7803.7	6709.3	6116.3	5995.5
62.5°	10995.4	11328.5	11848.3	11976.4	10376.8	8027.0	6193.2	4842.5	4242.2	4040.9
65°	11657.9	11998.3	12638.9	11866.6	9062.8	5988.2	4004.3	2767.2	2324.3	2163.2
67.5°	12203.3	12587.6	12902.4	10501.3	6636.1	3506.5	2086.3	1456.8	1292.1	1233.5
70°	12635.2	13275.8	11804.3	7719.5	3792.0	1709.3	1127.4	959.0	937.0	922.4
72.5°	12258.2	12174.0	8813.9	4454.5	1661.8	940.7	816.2	790.6	787.0	790.6
75°	10025.5	8942.0	5270.8	1936.3	834.5	680.8	677.1	666.2	684.5	684.5
77.5°	4864.5	4253.2	2203.5	830.9	549.0	534.4	552.7	552.7	552.7	552.7
80°	1127.4	1248.1	787.0	505.1	399.0	399.0	439.2	442.9	424.6	417.3
82.5°	384.3	512.4	431.9	318.4	263.5	296.5	333.1	340.4	281.8	285.5
85°	190.3	300.1	234.3	183.0	135.4	183.0	216.0	226.9	194.0	186.7
87.5°	87.8	131.8	87.8	62.2	47.6	65.9	62.2	51.2	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)