

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: P482194

Luminaire Tested: **IFLD-M-SA4B-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482194
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

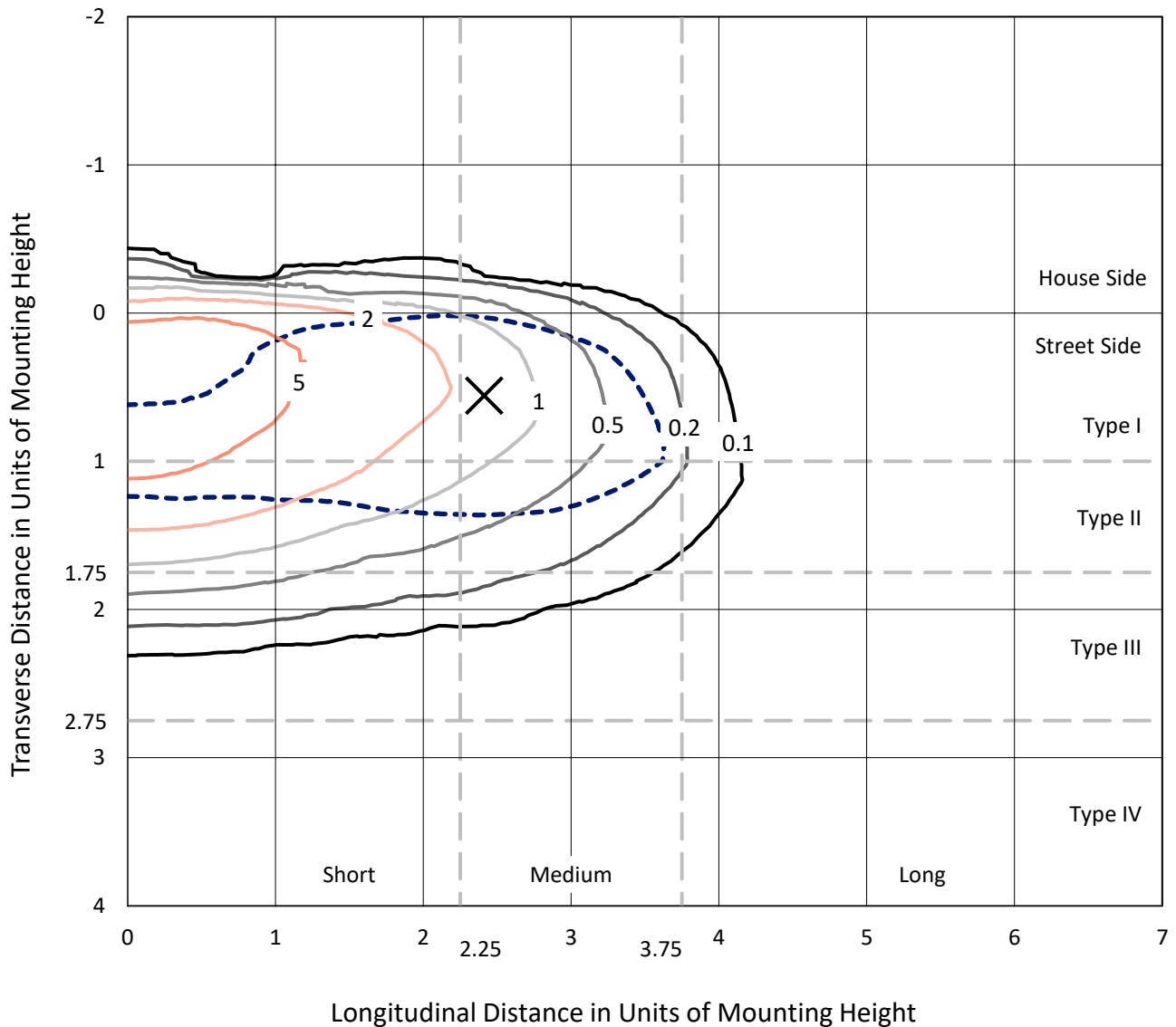
Lumens per Lamp: N/A
Luminaire Lumens: 13199.9 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
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

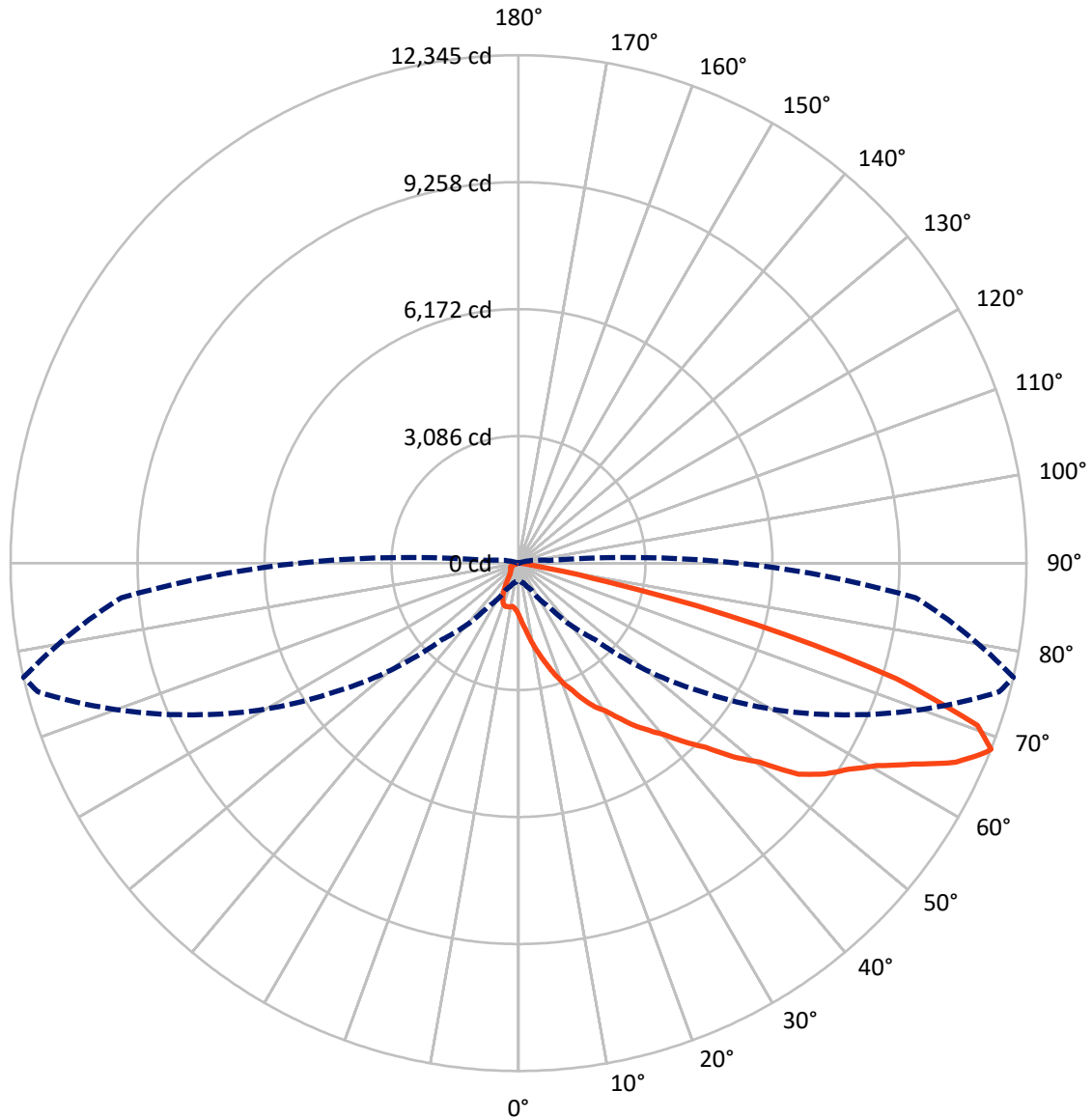
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	598.6	0.0	598.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	12601.3	0.0	12601.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	13199.9	0.0	13199.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.1
10°-20°	544.6	4.1
20°-30°	1055.4	8.0
30°-40°	1839.9	13.9
40°-50°	2694.7	20.4
50°-60°	3165.9	24.0
60°-70°	2673.3	20.3
70°-80°	1036.2	7.9
80°-90°	42.1	0.3
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°	13199.9	100.0
0°-180°	13199.9	100.0

Coefficient of Utilization



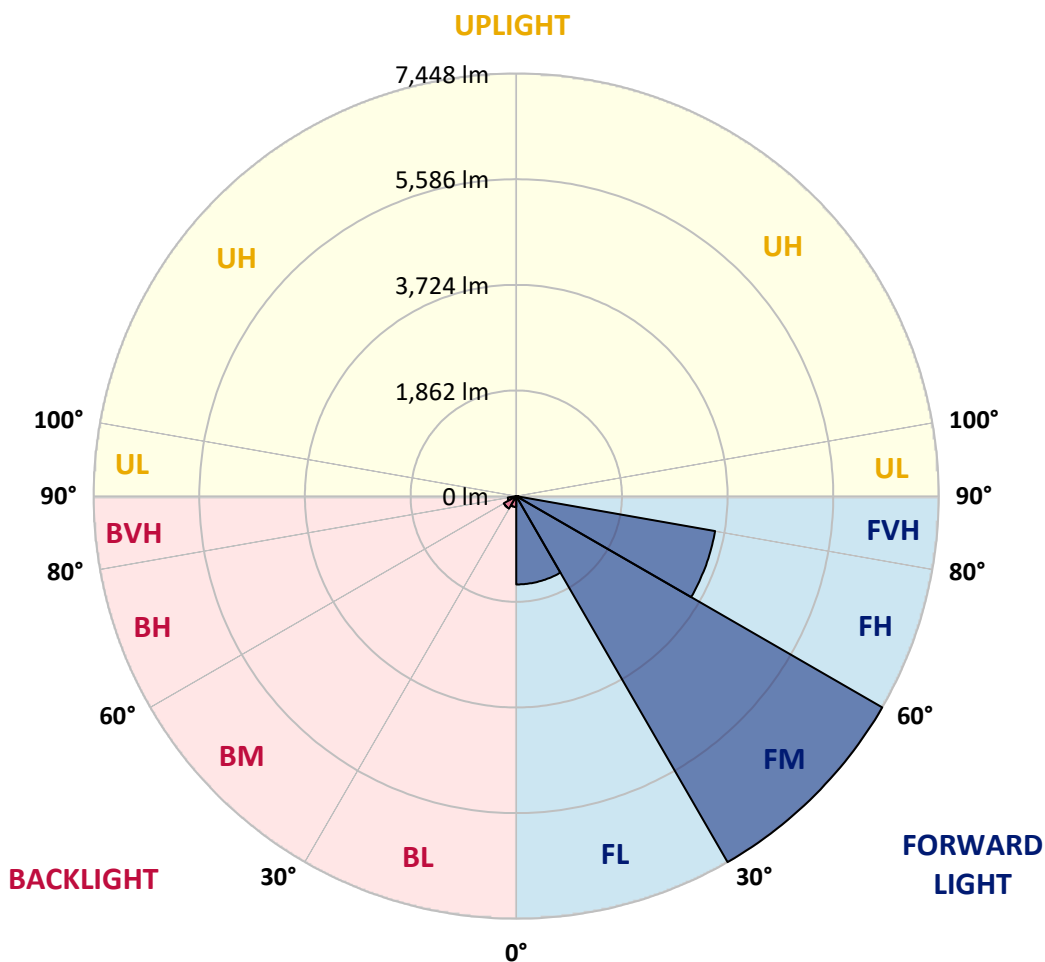
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.4	11.8			
FM (30°-60°)	7447.6	56.4			
FH (60°-80°)	3558.4	27.0			G2/5000
FVH (80°-90°)	38.9	0.3			G1/100
BL (0°-30°)	191.3	1.4	B1/500		
BM (30°-60°)	252.9	1.9	B1/1000		
BH (60°-80°)	151.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1920.4	1884.0	1845.8	1834.9	1764.0	1684.0	1609.4	1536.7	1414.8	1416.7	1333.0
5°	2475.1	2429.6	2398.7	2391.4	2280.5	2142.3	2029.5	1824.0	1622.2	1576.7	1423.9
7.5°	2931.5	2917.0	2871.5	2833.3	2751.5	2582.4	2449.6	2155.0	1847.7	1796.7	1534.9
10°	3208.0	3229.8	3249.8	3200.7	3137.0	3015.2	2833.3	2515.1	2104.1	2040.4	1678.5
12.5°	3502.6	3466.2	3478.9	3518.9	3435.3	3408.0	3182.5	2886.1	2404.1	2282.3	1860.4
15°	3578.9	3593.5	3624.4	3740.8	3797.2	3719.0	3524.4	3186.1	2715.1	2546.0	2029.5
17.5°	3629.9	3622.6	3660.8	3835.4	3920.8	3995.4	3873.6	3520.8	2986.1	2835.2	2240.5
20°	3693.5	3653.5	3737.2	3848.1	4046.3	4202.7	4197.3	3857.2	3269.8	3109.8	2449.6
22.5°	3929.9	3899.0	3966.3	3977.2	4115.4	4333.7	4386.4	4131.8	3560.8	3364.4	2675.1
25°	4366.4	4422.8	4342.7	4273.6	4315.5	4459.1	4497.3	4375.5	3853.5	3673.5	2900.6
27.5°	5004.7	4997.4	4839.2	4750.1	4650.1	4631.9	4659.2	4602.8	4084.5	3955.4	3086.1
30°	5690.3	5630.3	5484.8	5270.2	5050.2	4913.8	4875.6	4817.4	4355.5	4168.2	3269.8
32.5°	6235.9	6268.6	6106.8	5826.7	5461.2	5277.5	5093.8	5030.2	4653.7	4488.2	3480.7
35°	6737.8	6694.2	6565.0	6328.6	6001.3	5704.9	5417.5	5281.1	5012.0	4848.3	3713.5
37.5°	7108.8	7163.3	6917.8	6692.3	6366.8	6121.3	5839.4	5541.2	5381.1	5162.9	3997.2
40°	7459.8	7374.3	7208.8	7001.5	6699.6	6512.3	6326.8	5861.3	5774.0	5492.1	4317.3
42.5°	7397.9	7403.4	7312.5	7145.2	6926.9	6819.6	6756.0	6250.4	6130.4	5950.4	4630.1
45°	7145.2	7167.0	7197.9	7116.1	7134.2	7027.0	7197.9	6697.8	6579.6	6388.6	4990.2
47.5°	6866.9	6903.3	6896.0	7045.1	7214.3	7250.6	7678.0	7194.3	7143.3	7037.9	5488.4
50°	6405.0	6419.6	6559.6	6830.5	7061.5	7441.6	8038.1	7736.2	7814.4	7607.1	6081.3
52.5°	5615.7	5668.5	6028.6	6415.9	6881.5	7538.0	8281.8	8541.8	8740.0	8527.3	6650.5
55°	4617.3	4690.1	5044.7	5770.3	6452.3	7392.5	8503.6	8967.4	9369.3	9047.4	6996.0
57.5°	3715.3	3722.6	4040.9	4790.1	5843.1	7107.0	8616.4	9174.7	9714.8	9456.6	7417.9
60°	2831.5	2802.4	3087.9	3737.2	4817.4	6405.0	8334.5	9280.2	10145.8	9996.7	7925.3
62.5°	1822.2	1776.7	2087.7	2720.6	3762.6	5235.7	7770.7	9282.0	10818.7	10762.3	8774.6
65°	902.0	871.1	1138.4	1667.6	2604.2	4004.5	6966.9	9247.4	11640.7	11677.0	9602.0
67.5°	476.5	487.4	572.8	845.6	1502.1	2829.7	5755.8	8841.9	12060.8	12264.4	9802.1
68°	438.3	441.9	509.2	703.8	1303.9	2624.2	5468.4	8723.7	12093.5	12344.5	9691.2
70°	356.4	361.9	385.5	441.9	705.6	1707.6	4219.1	7719.8	11600.7	11829.8	8772.8
72.5°	283.7	300.1	314.6	338.3	414.6	896.6	2624.2	6015.8	9583.9	9609.3	6828.7
75°	216.4	229.1	258.2	278.2	323.7	492.8	1249.4	3668.1	6288.6	5979.5	4022.7
77.5°	167.3	178.2	190.9	218.2	271.0	332.8	381.9	1556.7	2671.5	2198.7	1136.6
80°	100.0	107.3	149.1	170.9	236.4	225.5	150.9	432.8	541.9	427.4	207.3
82.5°	58.2	63.6	85.5	130.9	165.5	121.8	89.1	134.6	132.8	116.4	69.1
85°	1.8	3.6	47.3	78.2	58.2	32.7	54.6	56.4	47.3	43.6	30.9
87.5°	0.0	1.8	12.7	10.9	12.7	7.3	10.9	14.5	18.2	16.4	12.7
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°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1276.6	1236.6	1147.5	1080.2	1007.5	963.8	920.2	892.9	878.4	869.3	876.6
5°	1309.4	1225.7	1082.0	954.7	871.1	814.7	758.3	729.2	702.0	687.4	696.5
7.5°	1382.1	1256.6	1018.4	880.2	782.0	694.7	623.8	567.4	534.7	505.6	511.0
10°	1471.2	1274.8	1020.2	836.5	694.7	556.5	456.5	385.5	345.5	320.1	318.2
12.5°	1562.2	1345.7	1027.5	792.9	587.4	418.3	300.1	247.3	223.7	211.0	211.0
15°	1700.4	1409.4	1009.3	712.9	445.5	272.8	205.5	187.3	178.2	167.3	169.1
17.5°	1820.4	1511.2	1000.2	592.9	305.5	196.4	170.9	150.9	141.8	130.9	130.9
20°	1982.2	1574.9	951.1	458.3	211.0	163.7	138.2	120.0	105.5	96.4	98.2
22.5°	2129.5	1624.0	863.8	312.8	161.9	129.1	101.8	83.7	70.9	60.0	61.8
25°	2289.6	1673.1	736.5	192.8	114.6	80.0	54.6	40.0	27.3	20.0	20.0
27.5°	2404.1	1687.6	571.0	114.6	69.1	36.4	12.7	1.8	0.0	0.0	0.0
30°	2520.5	1693.1	394.6	61.8	27.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2653.3	1691.3	247.3	32.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	2755.1	1660.4	118.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2909.7	1614.9	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3086.1	1533.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3244.3	1449.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3424.4	1345.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3740.8	1302.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4153.6	1267.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4408.2	1165.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4541.0	1060.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4737.4	1009.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5028.3	1012.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5483.0	1063.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5734.0	1012.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5521.2	811.1	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	5337.5	745.6	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4411.9	485.6	32.7	9.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3213.4	269.1	27.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1869.5	134.6	20.0	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	487.4	67.3	16.4	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	96.4	43.6	14.5	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	30.9	14.5	10.9	9.1	5.5	1.8	0.0	0.0	0.0	0.0
85°	23.6	14.5	14.5	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0
87.5°	10.9	5.5	5.5	5.5	5.5	3.6	1.8	0.0	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)