

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: P482244

Luminaire Tested: **IFLD-L-SA8C-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482244
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

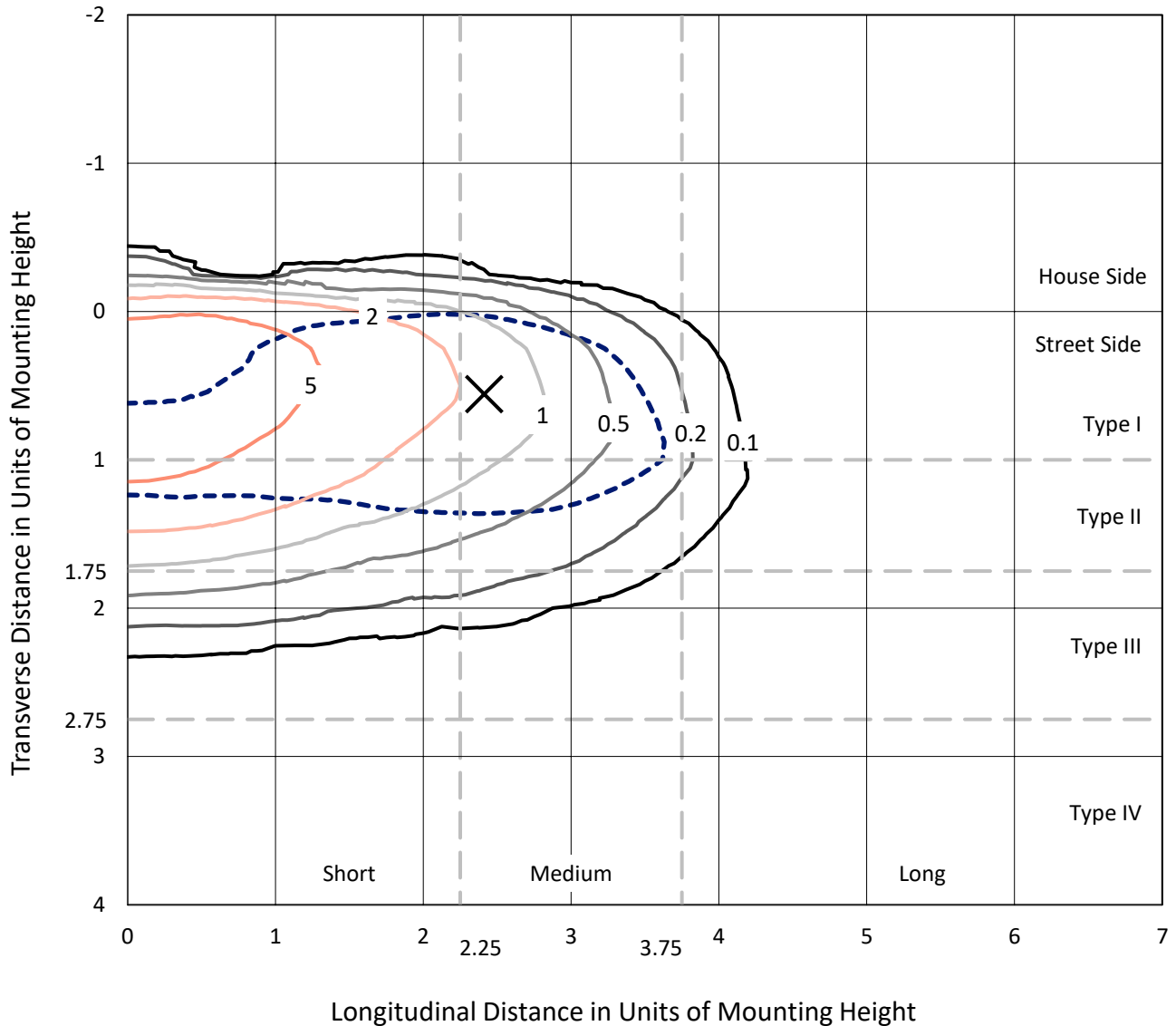
Lumens per Lamp: N/A
Luminaire Lumens: 31650.8 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 420.3
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

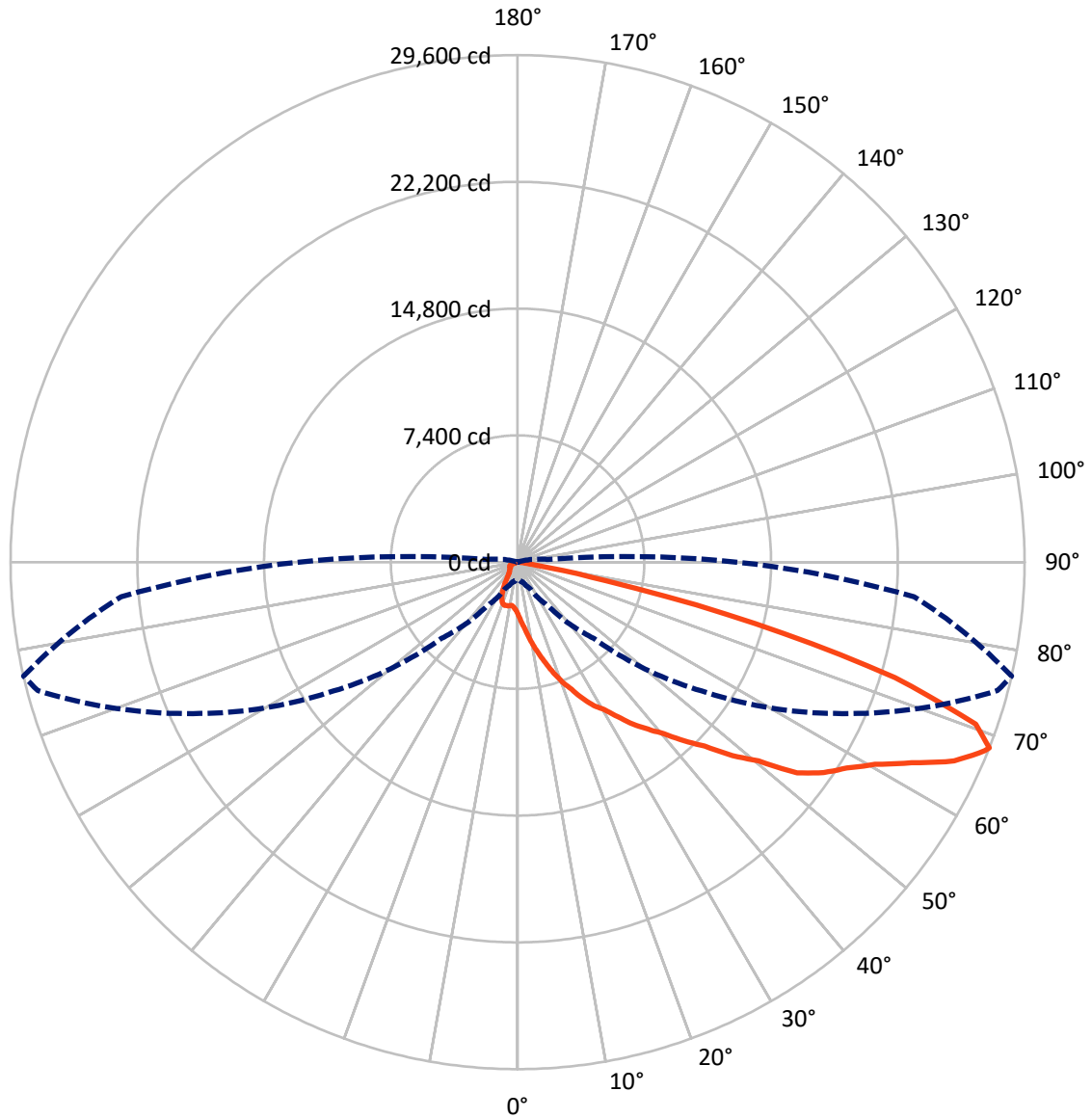
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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	1435.3	0.0	1435.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	30215.5	0.0	30215.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	31650.8	0.0	31650.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	1.1
10°-20°	1305.8	4.1
20°-30°	2530.6	8.0
30°-40°	4411.8	13.9
40°-50°	6461.5	20.4
50°-60°	7591.2	24.0
60°-70°	6410.1	20.3
70°-80°	2484.7	7.9
80°-90°	101.0	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°	31650.8	100.0
0°-180°	31650.8	100.0

Coefficient of Utilization



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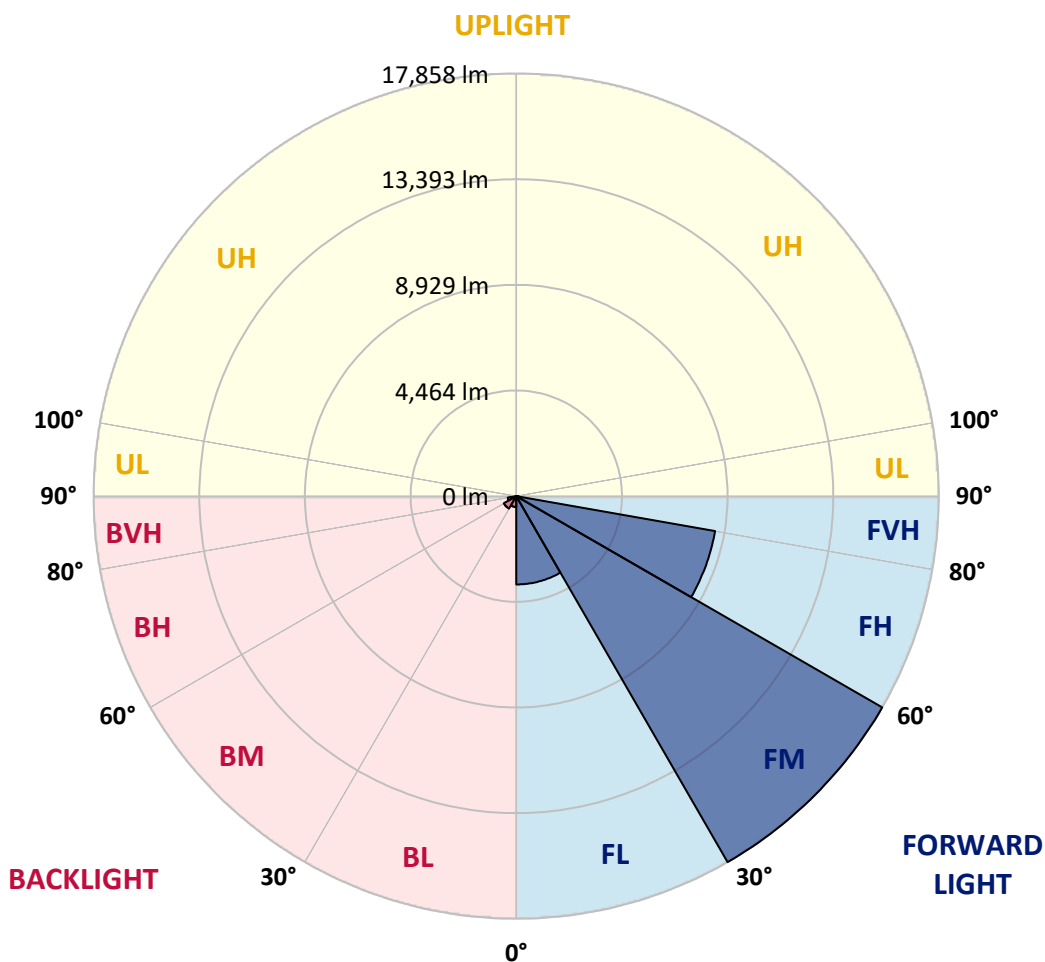
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3731.9	11.8			
FM (30°-60°)	17858.0	56.4			
FH (60°-80°)	8532.4	27.0			G4/12000
FVH (80°-90°)	93.2	0.3			G1/100
BL (0°-30°)	458.6	1.4	B1/500		
BM (30°-60°)	606.5	1.9	B1/1000		
BH (60°-80°)	362.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.8	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6
2.5°	4604.8	4517.6	4426.0	4399.8	4229.8	4037.9	3859.1	3684.7	3392.5	3396.9	3196.3
5°	5934.8	5825.8	5751.6	5734.2	5468.2	5136.8	4866.4	4373.7	3889.7	3780.6	3414.3
7.5°	7029.3	6994.4	6885.4	6793.8	6597.6	6192.0	5873.7	5167.3	4430.4	4308.3	3680.3
10°	7692.1	7744.4	7792.4	7674.6	7522.0	7229.9	6793.8	6030.7	5045.2	4892.6	4024.8
12.5°	8398.5	8311.3	8341.8	8437.8	8237.2	8171.8	7631.0	6920.3	5764.7	5472.5	4460.9
15°	8581.7	8616.5	8690.7	8969.7	9104.9	8917.4	8450.8	7639.8	6510.4	6104.8	4866.4
17.5°	8703.7	8686.3	8777.9	9196.5	9401.4	9580.2	9288.1	8442.1	7160.1	6798.2	5372.3
20°	8856.4	8760.4	8961.0	9227.0	9702.3	10077.3	10064.3	9248.8	7840.4	7456.6	5873.7
22.5°	9423.2	9349.1	9510.5	9536.6	9868.0	10391.3	10517.8	9907.3	8538.0	8067.1	6414.4
25°	10469.8	10605.0	10413.1	10247.4	10347.7	10692.2	10783.8	10491.6	9240.1	8808.4	6955.2
27.5°	12000.4	11982.9	11603.5	11389.9	11150.0	11106.4	11171.8	11036.7	9793.9	9484.3	7399.9
30°	13644.3	13500.4	13151.6	12637.0	12109.4	11782.3	11690.8	11551.2	10443.6	9994.5	7840.4
32.5°	14952.5	15031.0	14642.9	13971.3	13094.9	12654.4	12214.0	12061.4	11158.8	10762.0	8346.2
35°	16156.0	16051.4	15741.8	15174.9	14390.0	13679.2	12990.2	12663.2	12017.8	11625.3	8904.3
37.5°	17045.6	17176.4	16587.7	16047.0	15266.4	14677.8	14001.9	13286.7	12903.0	12379.7	9584.6
40°	17887.2	17682.2	17285.4	16788.3	16064.4	15615.3	15170.5	14054.2	13844.9	13169.0	10352.1
42.5°	17738.9	17752.0	17534.0	17132.8	16609.5	16352.2	16199.6	14987.4	14699.6	14267.9	11102.1
45°	17132.8	17185.1	17259.2	17063.0	17106.6	16849.3	17259.2	16060.1	15776.6	15318.8	11965.5
47.5°	16465.6	16552.8	16535.4	16892.9	17298.5	17385.7	18410.4	17250.5	17128.4	16875.5	13160.3
50°	15358.0	15392.9	15728.7	16378.4	16932.2	17843.6	19273.8	18550.0	18737.5	18240.4	14581.8
52.5°	13465.5	13592.0	14455.4	15384.2	16500.5	18074.7	19858.2	20481.7	20957.0	20446.8	15946.7
55°	11071.6	11246.0	12096.3	13836.2	15471.4	17725.8	20390.1	21502.1	22465.8	21694.0	16775.2
57.5°	8908.7	8926.1	9689.2	11485.8	14010.6	17041.2	20660.5	21999.2	23294.3	22675.1	17786.9
60°	6789.4	6719.7	7404.3	8961.0	11551.2	15358.0	19984.6	22252.1	24327.8	23970.2	19003.5
62.5°	4369.3	4260.3	5006.0	6523.5	9022.1	12554.2	18632.8	22256.5	25941.2	25806.0	21039.9
65°	2162.9	2088.7	2729.7	3998.7	6244.4	9602.0	16705.4	22173.6	27912.2	27999.4	23023.9
67.5°	1142.5	1168.6	1373.6	2027.7	3601.9	6785.1	13801.3	21201.2	28919.5	29407.9	23503.6
68°	1050.9	1059.6	1221.0	1687.6	3126.5	6292.3	13112.3	20917.8	28998.0	29599.7	23237.6
70°	854.7	867.8	924.4	1059.6	1691.9	4094.6	10116.6	18510.7	27816.2	28365.7	21035.5
72.5°	680.3	719.5	754.4	811.1	994.2	2149.8	6292.3	14424.9	22980.3	23041.4	16374.0
75°	518.9	549.4	619.2	667.2	776.2	1181.7	2995.7	8795.3	15078.9	14337.6	9645.6
77.5°	401.2	427.3	457.9	523.3	649.7	798.0	915.7	3732.7	6405.7	5272.0	2725.4
80°	239.8	257.3	357.6	409.9	566.9	540.7	361.9	1037.8	1299.5	1024.7	497.1
82.5°	139.5	152.6	204.9	314.0	396.8	292.2	213.7	322.7	318.3	279.1	165.7
85°	4.4	8.7	113.4	187.5	139.5	78.5	130.8	135.2	113.4	104.7	74.1
87.5°	0.0	4.4	30.5	26.2	30.5	17.4	26.2	34.9	43.6	39.2	30.5
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°	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6
2.5°	3061.1	2965.2	2751.5	2590.2	2415.8	2311.1	2206.5	2141.1	2106.2	2084.4	2101.8
5°	3139.6	2939.0	2594.6	2289.3	2088.7	1953.5	1818.4	1748.6	1683.2	1648.3	1670.1
7.5°	3314.1	3013.2	2441.9	2110.5	1875.1	1665.7	1495.7	1360.5	1282.0	1212.2	1225.3
10°	3527.7	3056.8	2446.3	2005.9	1665.7	1334.3	1094.5	924.4	828.5	767.5	763.1
12.5°	3745.8	3226.8	2463.7	1901.2	1408.5	1002.9	719.5	593.0	536.4	505.8	505.8
15°	4077.2	3379.5	2420.1	1709.4	1068.3	654.1	492.7	449.1	427.3	401.2	405.5
17.5°	4365.0	3623.7	2398.3	1421.6	732.6	470.9	409.9	361.9	340.1	314.0	314.0
20°	4753.0	3776.3	2280.6	1098.9	505.8	392.5	331.4	287.8	252.9	231.1	235.5
22.5°	5106.3	3894.0	2071.3	750.0	388.1	309.6	244.2	200.6	170.1	143.9	148.3
25°	5490.0	4011.7	1766.0	462.2	274.7	191.9	130.8	95.9	65.4	48.0	48.0
27.5°	5764.7	4046.6	1369.2	274.7	165.7	87.2	30.5	4.4	0.0	0.0	0.0
30°	6043.8	4059.7	946.2	148.3	65.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6362.1	4055.4	593.0	78.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	6606.3	3981.2	283.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6977.0	3872.2	87.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7399.9	3676.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7779.3	3475.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8211.0	3226.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8969.7	3122.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9959.6	3039.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10570.1	2795.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10888.4	2542.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11359.4	2420.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12057.0	2428.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13147.2	2550.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13749.0	2428.9	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13238.8	1944.8	82.9	21.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	12798.3	1787.8	82.9	21.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10578.8	1164.3	78.5	21.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7705.2	645.4	65.4	17.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	4482.7	322.7	48.0	17.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1168.6	161.3	39.2	21.8	13.1	4.4	0.0	0.0	0.0	0.0	0.0
80°	231.1	104.7	34.9	26.2	17.4	8.7	0.0	0.0	0.0	0.0	0.0
82.5°	109.0	74.1	34.9	26.2	21.8	13.1	4.4	0.0	0.0	0.0	0.0
85°	56.7	34.9	34.9	26.2	26.2	17.4	8.7	0.0	0.0	0.0	0.0
87.5°	26.2	13.1	13.1	13.1	13.1	8.7	4.4	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)