

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: P482009

Luminaire Tested: **IFLD-L-SA8B-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482009
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

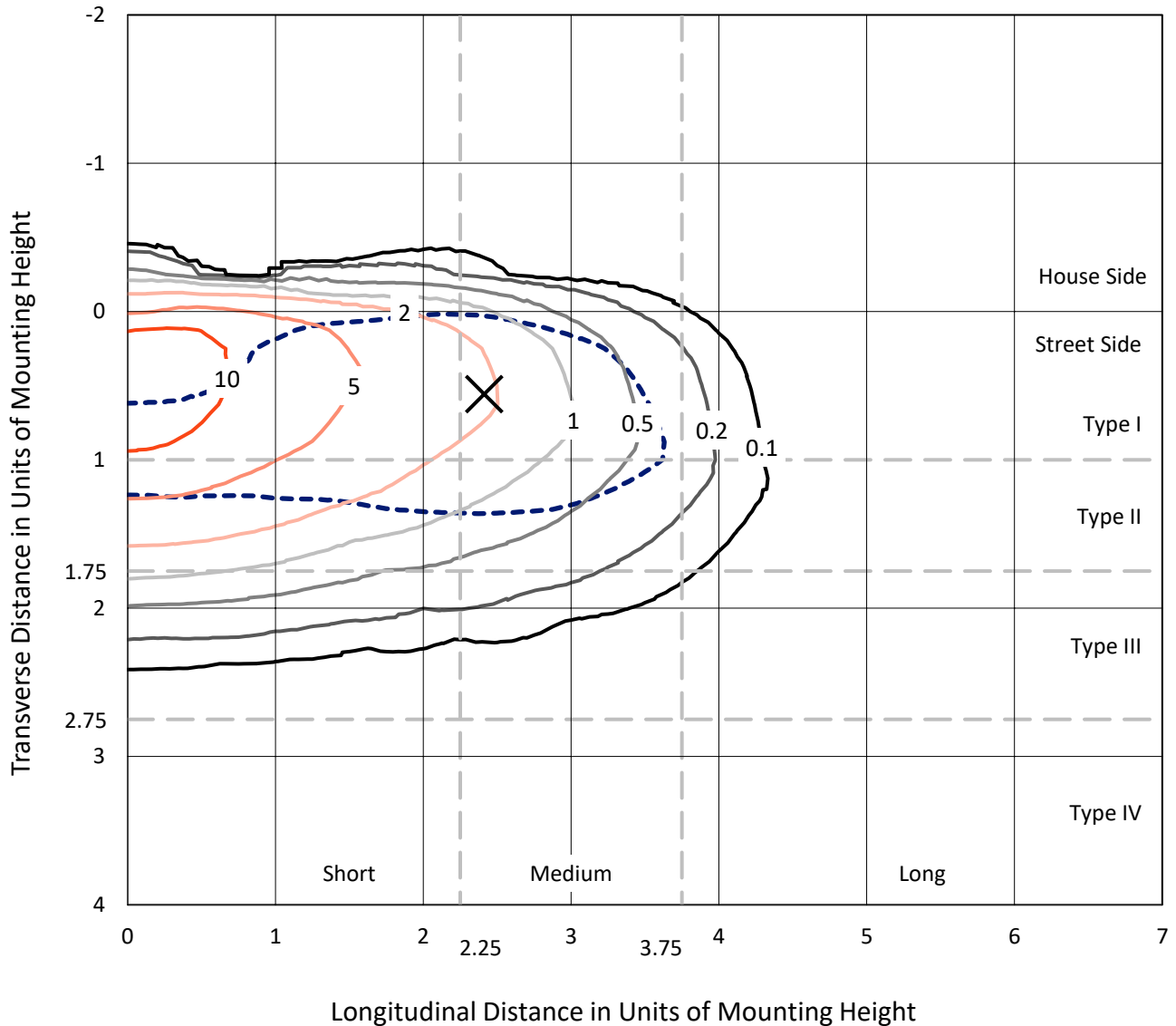
Lumens per Lamp: N/A
Luminaire Lumens: 29137 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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

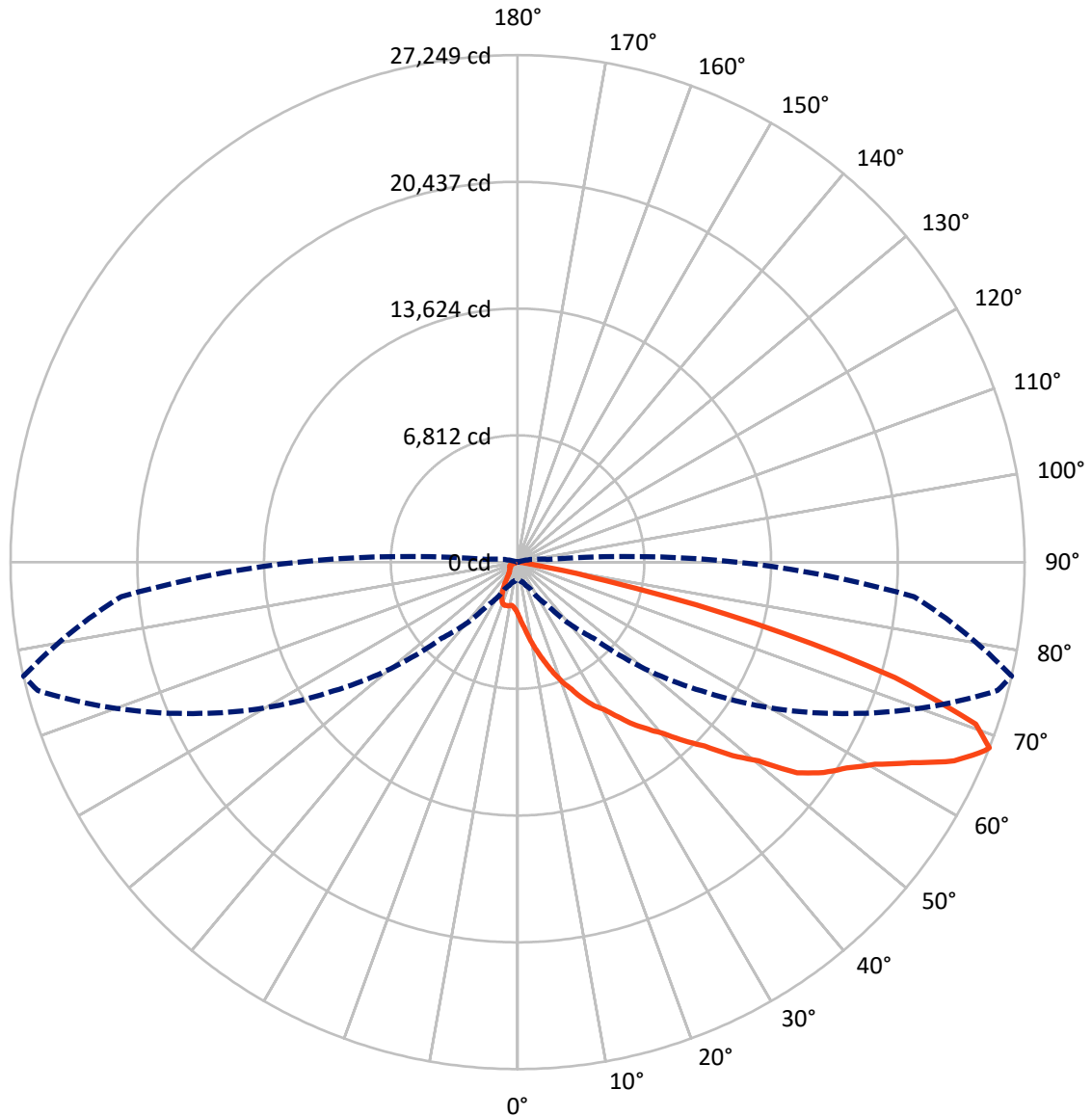
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	1321.3	0.0	1321.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	27815.7	0.0	27815.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	29137.0	0.0	29137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.9	1.1
10°-20°	1202.1	4.1
20°-30°	2329.7	8.0
30°-40°	4061.4	13.9
40°-50°	5948.3	20.4
50°-60°	6988.3	24.0
60°-70°	5901.0	20.3
70°-80°	2287.4	7.9
80°-90°	93.0	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°	29137.0	100.0
0°-180°	29137.0	100.0

Coefficient of Utilization



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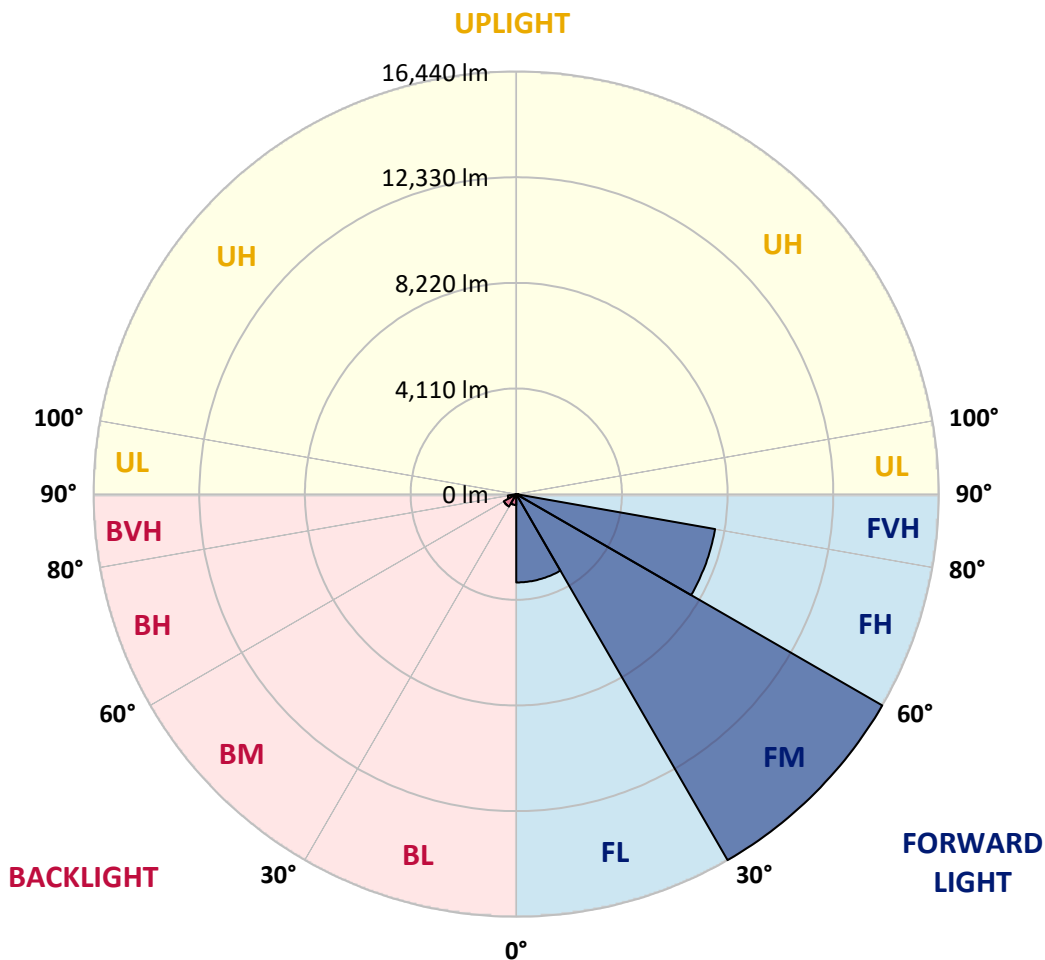
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3435.5	11.8			
FM (30°-60°)	16439.6	56.4			
FH (60°-80°)	7854.7	27.0			G4/12000
FVH (80°-90°)	85.8	0.3			G1/100
BL (0°-30°)	422.2	1.4	B1/500		
BM (30°-60°)	558.3	1.9	B1/1000		
BH (60°-80°)	333.6	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	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°	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9
2.5°	4239.1	4158.8	4074.5	4050.4	3893.8	3717.2	3552.6	3392.1	3123.1	3127.1	2942.5
5°	5463.4	5363.1	5294.8	5278.8	5033.9	4728.8	4479.9	4026.3	3580.7	3480.4	3143.2
7.5°	6471.0	6438.9	6338.5	6254.2	6073.6	5700.3	5407.2	4756.9	4078.5	3966.1	3388.0
10°	7081.2	7129.3	7173.5	7065.1	6924.6	6655.7	6254.2	5551.7	4644.5	4504.0	3705.2
12.5°	7731.5	7651.2	7679.3	7767.6	7582.9	7522.7	7025.0	6370.6	5306.9	5037.9	4106.6
15°	7900.1	7932.2	8000.4	8257.3	8381.8	8209.2	7779.6	7033.0	5993.3	5620.0	4479.9
17.5°	8012.5	7996.4	8080.7	8466.1	8654.8	8819.3	8550.4	7771.6	6591.4	6258.2	4945.6
20°	8153.0	8064.7	8249.3	8494.2	8931.7	9277.0	9264.9	8514.3	7217.6	6864.4	5407.2
22.5°	8674.8	8606.6	8755.1	8779.2	9084.3	9566.0	9682.4	9120.4	7859.9	7426.4	5905.0
25°	9638.3	9762.7	9586.1	9433.5	9525.9	9843.0	9927.3	9658.3	8506.2	8108.8	6402.8
27.5°	11047.3	11031.2	10682.0	10485.3	10264.5	10224.3	10284.5	10160.1	9016.0	8731.0	6812.2
30°	12560.6	12428.2	12107.0	11633.3	11147.6	10846.5	10762.2	10633.8	9614.2	9200.7	7217.6
32.5°	13764.9	13837.2	13479.9	12861.7	12054.8	11649.4	11244.0	11103.5	10272.5	9907.2	7683.3
35°	14872.9	14776.5	14491.5	13969.6	13247.1	12592.7	11958.5	11657.4	11063.3	10702.0	8197.1
37.5°	15691.8	15812.2	15270.3	14772.5	14053.9	13512.0	12889.8	12231.5	11878.2	11396.5	8823.4
40°	16466.5	16277.8	15912.5	15454.9	14788.6	14375.1	13965.6	12938.0	12745.3	12123.1	9529.9
42.5°	16330.0	16342.1	16141.4	15772.0	15290.3	15053.5	14913.0	13797.0	13532.1	13134.7	10220.3
45°	15772.0	15820.2	15888.5	15707.8	15748.0	15511.1	15888.5	14784.5	14523.6	14102.1	11015.1
47.5°	15157.9	15238.1	15222.1	15551.3	15924.6	16004.9	16948.2	15880.4	15768.0	15535.2	12115.1
50°	14138.2	14170.4	14479.5	15077.6	15587.4	16426.4	17743.1	17076.7	17249.3	16791.7	13423.7
52.5°	12396.1	12512.5	13307.3	14162.3	15190.0	16639.1	18281.0	18855.0	19292.6	18822.9	14680.2
55°	10192.2	10352.8	11135.6	12737.3	14242.6	16318.0	18770.7	19794.3	20681.5	19971.0	15442.9
57.5°	8201.1	8217.2	8919.7	10573.6	12897.8	15687.7	19019.6	20252.0	21444.2	20874.2	16374.2
60°	6250.2	6186.0	6816.2	8249.3	10633.8	14138.2	18397.4	20484.8	22395.6	22066.4	17494.2
62.5°	4022.3	3921.9	4608.4	6005.3	8305.5	11557.1	17153.0	20488.8	23880.9	23756.4	19368.8
65°	1991.1	1922.8	2512.9	3681.1	5748.4	8839.4	15378.6	20412.5	25695.3	25775.6	21195.3
67.5°	1051.7	1075.8	1264.5	1866.6	3315.8	6246.2	12705.1	19517.4	26622.6	27072.2	21636.9
68°	967.4	975.5	1124.0	1553.5	2878.2	5792.6	12070.9	19256.4	26694.9	27248.8	21392.0
70°	786.8	798.8	851.0	975.5	1557.5	3769.4	9313.1	17040.6	25607.0	26112.8	19364.8
72.5°	626.2	662.4	694.5	746.7	915.3	1979.0	5792.6	13279.2	21155.2	21211.4	15073.6
75°	477.7	505.8	570.0	614.2	714.5	1087.9	2757.8	8096.8	13881.3	13198.9	8879.6
77.5°	369.3	393.4	421.5	481.7	598.1	734.6	843.0	3436.2	5897.0	4853.2	2508.9
80°	220.8	236.8	329.2	377.3	521.9	497.8	333.2	955.4	1196.3	943.4	457.6
82.5°	128.5	140.5	188.7	289.0	365.3	269.0	196.7	297.1	293.0	256.9	152.5
85°	4.0	8.0	104.4	172.6	128.5	72.3	120.4	124.4	104.4	96.3	68.2
87.5°	0.0	4.0	28.1	24.1	28.1	16.1	24.1	32.1	40.1	36.1	28.1
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°	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9
2.5°	2818.0	2729.7	2533.0	2384.5	2223.9	2127.6	2031.2	1971.0	1938.9	1918.8	1934.9
5°	2890.3	2705.6	2388.5	2107.5	1922.8	1798.4	1673.9	1609.7	1549.5	1517.4	1537.5
7.5°	3050.8	2773.9	2248.0	1942.9	1726.1	1533.4	1376.9	1252.5	1180.2	1116.0	1128.0
10°	3247.5	2814.0	2252.0	1846.6	1533.4	1228.4	1007.6	851.0	762.7	706.5	702.5
12.5°	3448.3	2970.6	2268.1	1750.2	1296.6	923.3	662.4	545.9	493.8	465.7	465.7
15°	3753.3	3111.1	2227.9	1573.6	983.5	602.1	453.6	413.5	393.4	369.3	373.3
17.5°	4018.3	3335.9	2207.8	1308.7	674.4	433.5	377.3	333.2	313.1	289.0	289.0
20°	4375.5	3476.4	2099.5	1011.6	465.7	361.3	305.1	264.9	232.8	212.8	216.8
22.5°	4700.7	3584.7	1906.8	690.5	357.3	285.0	224.8	184.7	156.6	132.5	136.5
25°	5054.0	3693.1	1625.8	425.5	252.9	176.6	120.4	88.3	60.2	44.2	44.2
27.5°	5306.9	3725.2	1260.5	252.9	152.5	80.3	28.1	4.0	0.0	0.0	0.0
30°	5563.8	3737.3	871.1	136.5	60.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5856.8	3733.3	545.9	72.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6081.6	3665.0	260.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6422.8	3564.7	80.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6812.2	3384.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7161.4	3199.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7558.9	2970.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8257.3	2874.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9168.6	2797.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9730.6	2573.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10023.6	2340.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10457.2	2227.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11099.4	2235.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12103.0	2348.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12657.0	2235.9	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12187.3	1790.4	76.3	20.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	11781.9	1645.8	76.3	20.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9738.6	1071.8	72.3	20.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7093.2	594.1	60.2	16.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4126.7	297.1	44.2	16.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1075.8	148.5	36.1	20.1	12.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	212.8	96.3	32.1	24.1	16.1	8.0	0.0	0.0	0.0	0.0	0.0
82.5°	100.4	68.2	32.1	24.1	20.1	12.0	4.0	0.0	0.0	0.0	0.0
85°	52.2	32.1	32.1	24.1	24.1	16.1	8.0	0.0	0.0	0.0	0.0
87.5°	24.1	12.0	12.0	12.0	12.0	8.0	4.0	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)