

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: P482047

Luminaire Tested: **IFLD-L-SA8A-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482047
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

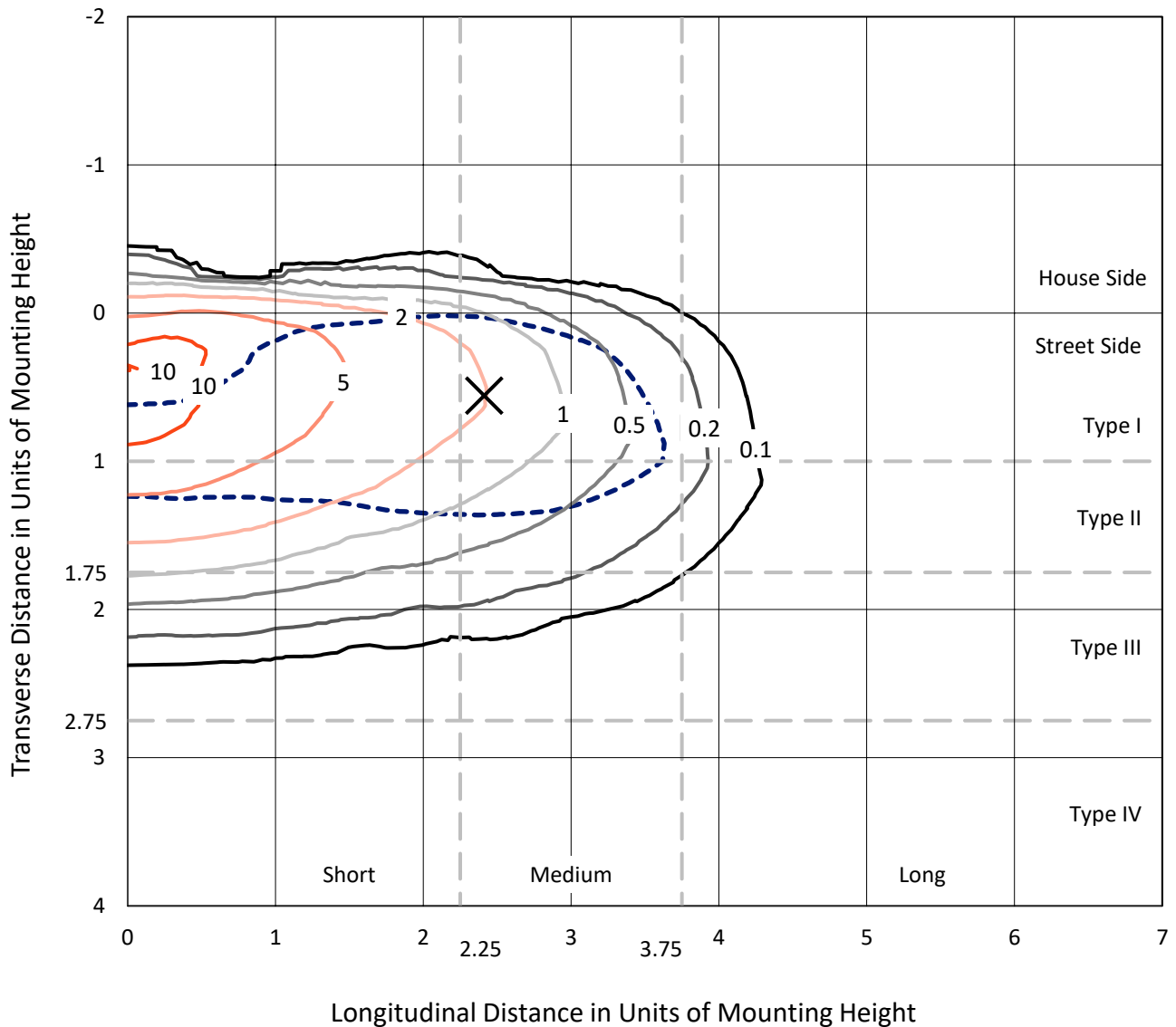
Lumens per Lamp: N/A
Luminaire Lumens: 26563.5 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 247.8
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

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Iso-Footcandle Lines of Horizontal Illumination

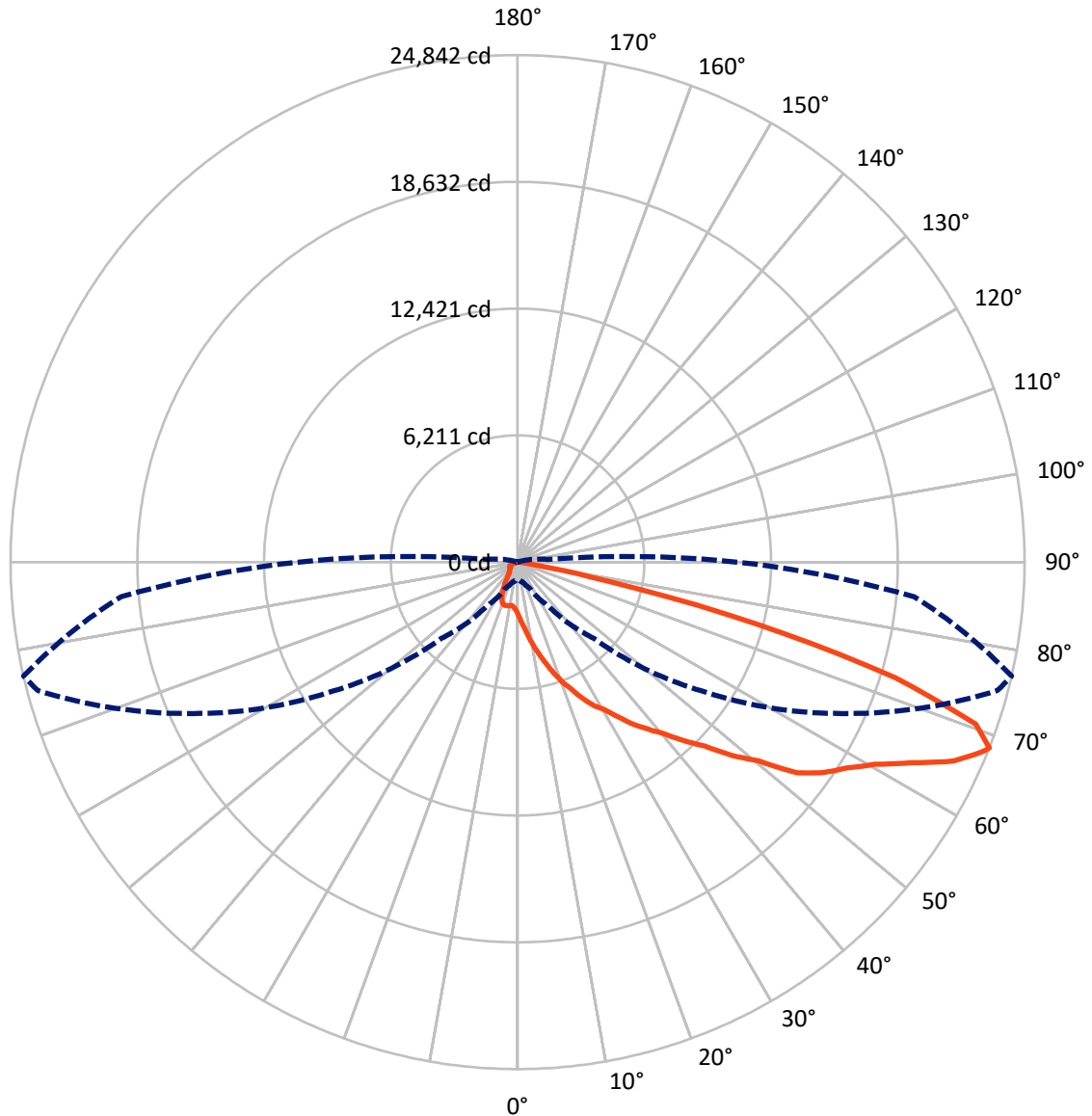
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	1204.6	0.0	1204.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	25358.9	0.0	25358.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	26563.5	0.0	26563.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	1.1
10°-20°	1095.9	4.1
20°-30°	2123.9	8.0
30°-40°	3702.7	13.9
40°-50°	5422.9	20.4
50°-60°	6371.1	24.0
60°-70°	5379.8	20.3
70°-80°	2085.3	7.9
80°-90°	84.8	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°	26563.5	100.0
0°-180°	26563.5	100.0

Coefficient of Utilization



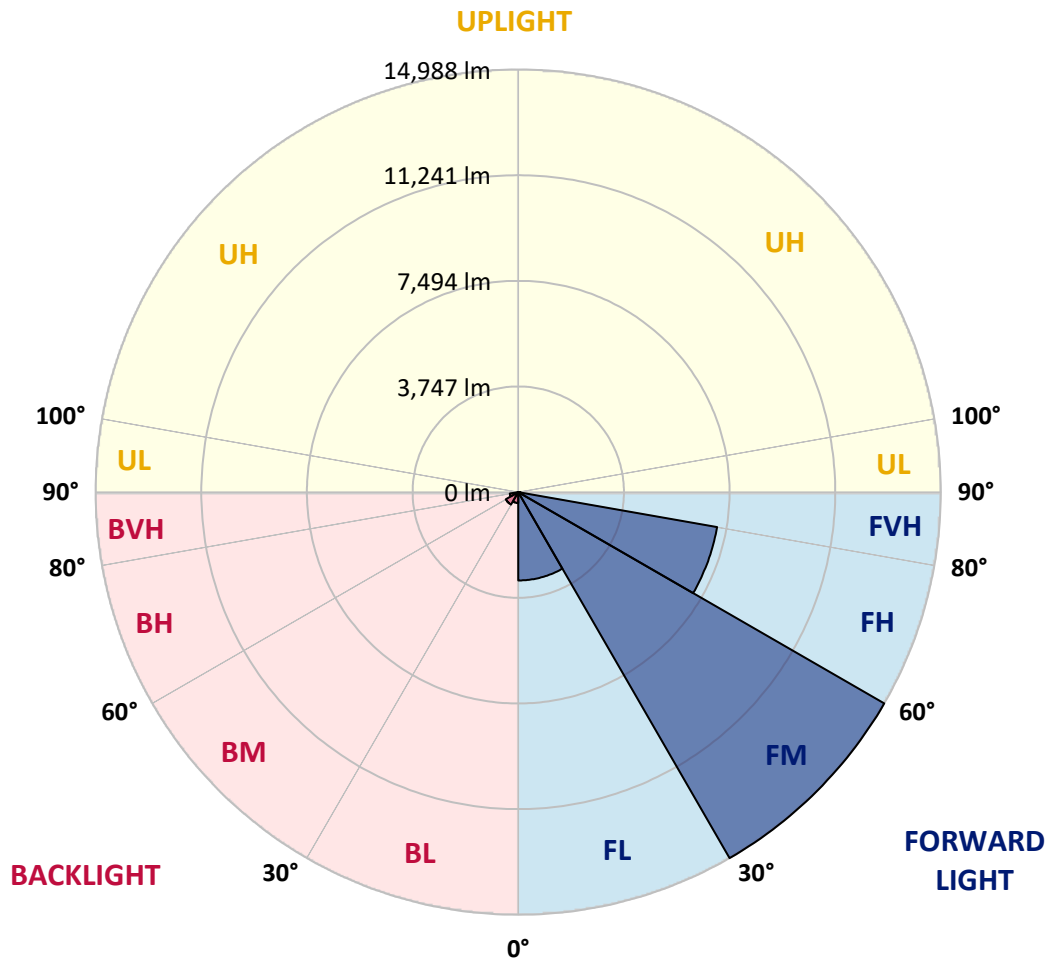
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3132.1	11.8			
FM (30°-60°)	14987.6	56.4			
FH (60°-80°)	7161.0	27.0			G3/7500
FVH (80°-90°)	78.2	0.3			G1/100
BL (0°-30°)	384.9	1.4	B1/500		
BM (30°-60°)	509.0	1.9	B1/1000		
BH (60°-80°)	304.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.6	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5
2.5°	3864.7	3791.5	3714.6	3692.6	3549.9	3388.9	3238.8	3092.5	2847.3	2850.9	2682.6
5°	4980.9	4889.4	4827.2	4812.5	4589.3	4311.1	4084.2	3670.7	3264.5	3173.0	2865.6
7.5°	5899.5	5870.2	5778.7	5701.8	5537.1	5196.8	4929.6	4336.8	3718.3	3615.8	3088.8
10°	6455.7	6499.6	6539.9	6441.1	6313.0	6067.8	5701.8	5061.4	4234.3	4106.2	3377.9
12.5°	7048.6	6975.4	7001.0	7081.5	6913.2	6858.3	6404.5	5808.0	4838.1	4592.9	3743.9
15°	7202.3	7231.6	7293.8	7528.0	7641.5	7484.1	7092.5	6411.8	5463.9	5123.6	4084.2
17.5°	7304.8	7290.1	7367.0	7718.3	7890.3	8040.4	7795.2	7085.2	6009.2	5705.5	4508.8
20°	7432.9	7352.4	7520.7	7743.9	8142.9	8457.6	8446.6	7762.2	6580.2	6258.1	4929.6
22.5°	7908.6	7846.4	7981.8	8003.8	8281.9	8721.1	8827.2	8314.9	7165.7	6770.5	5383.4
25°	8787.0	8900.4	8739.4	8600.3	8684.5	8973.6	9050.5	8805.3	7754.9	7392.6	5837.2
27.5°	10071.5	10056.9	9738.5	9559.2	9357.9	9321.3	9376.2	9262.7	8219.7	7959.9	6210.5
30°	11451.2	11330.5	11037.7	10605.8	10163.0	9888.5	9811.7	9694.6	8765.0	8388.1	6580.2
32.5°	12549.1	12615.0	12289.3	11725.7	10990.1	10620.5	10250.8	10122.8	9365.2	9032.2	7004.7
35°	13559.2	13471.4	13211.6	12735.8	12077.0	11480.5	10902.3	10627.8	10086.2	9756.8	7473.1
37.5°	14305.8	14415.6	13921.5	13467.7	12812.6	12318.6	11751.3	11151.1	10829.1	10389.9	8044.0
40°	15012.1	14840.1	14507.1	14089.9	13482.4	13105.4	12732.1	11795.2	11619.6	11052.3	8688.2
42.5°	14887.7	14898.7	14715.7	14379.0	13939.8	13723.9	13595.8	12578.4	12336.9	11974.6	9317.6
45°	14379.0	14422.9	14485.1	14320.4	14357.0	14141.1	14485.1	13478.7	13240.8	12856.6	10042.2
47.5°	13819.1	13892.3	13877.6	14177.7	14518.1	14591.3	15451.3	14477.8	14375.3	14163.1	11045.0
50°	12889.5	12918.8	13200.6	13745.9	14210.7	14975.5	16175.9	15568.4	15725.8	15308.6	12238.1
52.5°	11301.2	11407.3	12131.9	12911.5	13848.3	15169.5	16666.3	17189.7	17588.6	17160.4	13383.6
55°	9292.0	9438.4	10152.0	11612.3	12984.7	14876.7	17112.8	18046.0	18854.8	18207.1	14078.9
57.5°	7476.8	7491.4	8131.9	9639.7	11758.6	14302.1	17339.7	18463.2	19550.2	19030.5	14928.0
60°	5698.2	5639.6	6214.2	7520.7	9694.6	12889.5	16772.5	18675.5	20417.5	20117.4	15949.0
62.5°	3667.0	3575.5	4201.3	5474.9	7571.9	10536.3	15637.9	18679.2	21771.6	21658.2	17658.1
65°	1815.2	1753.0	2291.0	3356.0	5240.7	8058.7	14020.4	18609.6	23425.8	23499.0	19323.3
67.5°	958.8	980.8	1152.8	1701.8	3022.9	5694.5	11583.0	17793.5	24271.2	24681.1	19725.8
68°	882.0	889.3	1024.7	1416.3	2624.0	5281.0	11004.7	17555.6	24337.1	24842.1	19502.6
70°	717.3	728.3	775.9	889.3	1420.0	3436.5	8490.5	15535.5	23345.3	23806.4	17654.4
72.5°	570.9	603.9	633.1	680.7	834.4	1804.2	5281.0	12106.3	19286.7	19337.9	13742.2
75°	435.5	461.1	519.7	559.9	651.4	991.8	2514.2	7381.6	12655.3	12033.1	8095.3
77.5°	336.7	358.7	384.3	439.2	545.3	669.7	768.5	3132.7	5376.1	4424.6	2287.3
80°	201.3	215.9	300.1	344.0	475.8	453.8	303.8	871.0	1090.6	860.0	417.2
82.5°	117.1	128.1	172.0	263.5	333.0	245.2	179.3	270.8	267.2	234.2	139.1
85°	3.7	7.3	95.2	157.4	117.1	65.9	109.8	113.5	95.2	87.8	62.2
87.5°	0.0	3.7	25.6	22.0	25.6	14.6	22.0	29.3	36.6	32.9	25.6
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°	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5	2543.5
2.5°	2569.1	2488.6	2309.3	2173.9	2027.5	1939.6	1851.8	1796.9	1767.6	1749.3	1764.0
5°	2635.0	2466.6	2177.5	1921.3	1753.0	1639.6	1526.1	1467.5	1412.6	1383.4	1401.7
7.5°	2781.4	2528.9	2049.4	1771.3	1573.7	1398.0	1255.3	1141.8	1076.0	1017.4	1028.4
10°	2960.7	2565.5	2053.1	1683.5	1398.0	1119.9	918.6	775.9	695.3	644.1	640.4
12.5°	3143.7	2708.2	2067.7	1595.6	1182.1	841.7	603.9	497.7	450.1	424.5	424.5
15°	3421.8	2836.3	2031.1	1434.6	896.6	549.0	413.5	377.0	358.7	336.7	340.4
17.5°	3663.4	3041.2	2012.8	1193.1	614.8	395.2	344.0	303.8	285.5	263.5	263.5
20°	3989.1	3169.3	1914.0	922.2	424.5	329.4	278.1	241.5	212.3	194.0	197.6
22.5°	4285.5	3268.1	1738.4	629.5	325.7	259.8	204.9	168.3	142.7	120.8	124.4
25°	4607.6	3366.9	1482.2	387.9	230.6	161.0	109.8	80.5	54.9	40.3	40.3
27.5°	4838.1	3396.2	1149.1	230.6	139.1	73.2	25.6	3.7	0.0	0.0	0.0
30°	5072.4	3407.2	794.2	124.4	54.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5339.5	3403.5	497.7	65.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	5544.5	3341.3	237.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5855.5	3249.8	73.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6210.5	3085.1	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6528.9	2916.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6891.2	2708.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7528.0	2620.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8358.8	2550.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8871.1	2345.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9138.3	2133.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9533.5	2031.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10119.1	2038.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11034.0	2140.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11539.1	2038.5	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11110.9	1632.2	69.5	18.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	10741.3	1500.5	69.5	18.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	8878.5	977.1	65.9	18.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6466.7	541.6	54.9	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	3762.2	270.8	40.3	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	980.8	135.4	32.9	18.3	11.0	3.7	0.0	0.0	0.0	0.0	0.0
80°	194.0	87.8	29.3	22.0	14.6	7.3	0.0	0.0	0.0	0.0	0.0
82.5°	91.5	62.2	29.3	22.0	18.3	11.0	3.7	0.0	0.0	0.0	0.0
85°	47.6	29.3	29.3	22.0	22.0	14.6	7.3	0.0	0.0	0.0	0.0
87.5°	22.0	11.0	11.0	11.0	11.0	7.3	3.7	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)