

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: P482196

Luminaire Tested: **IFLD-M-SA4D-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482196
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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: 18080.3 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

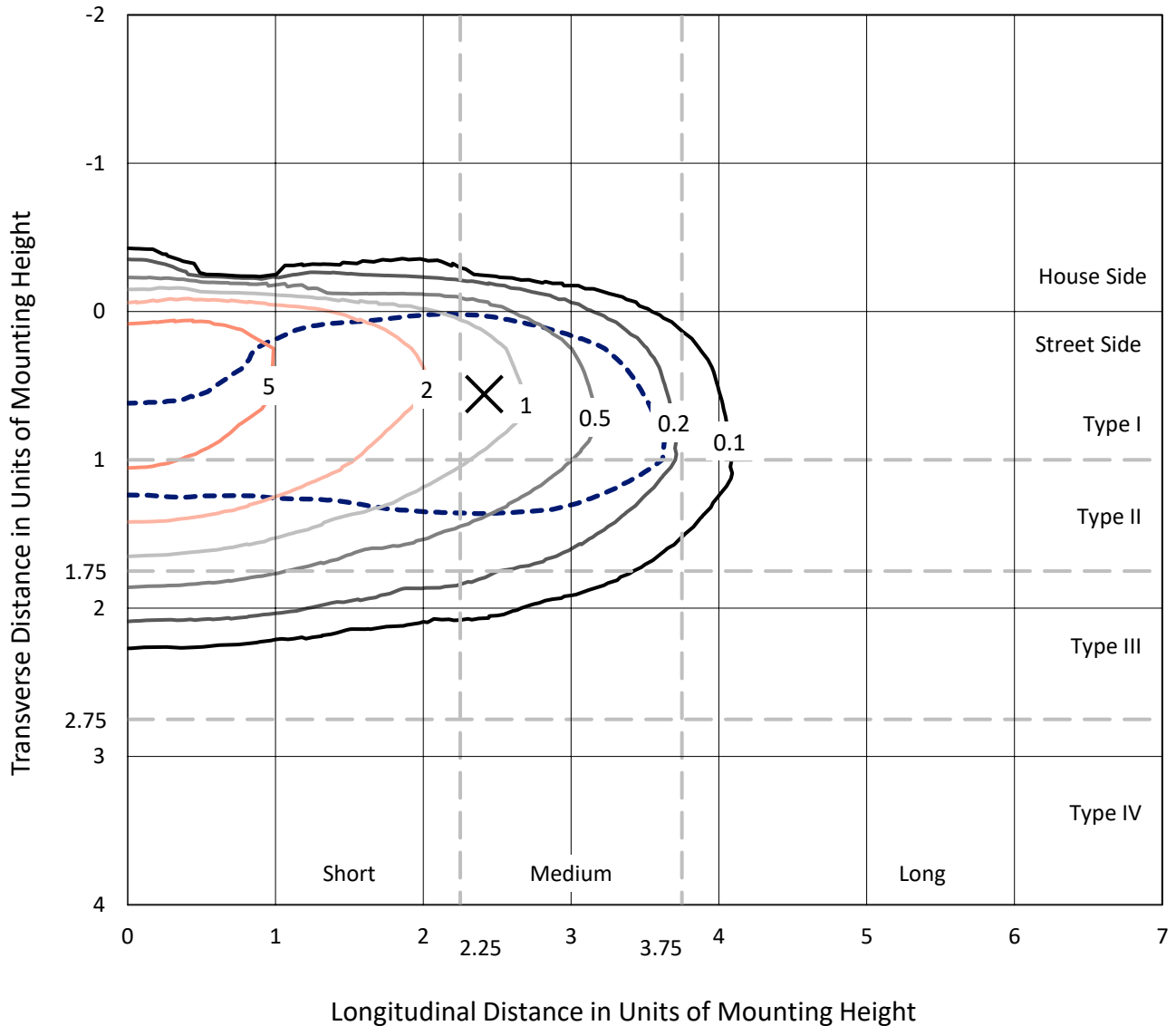
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

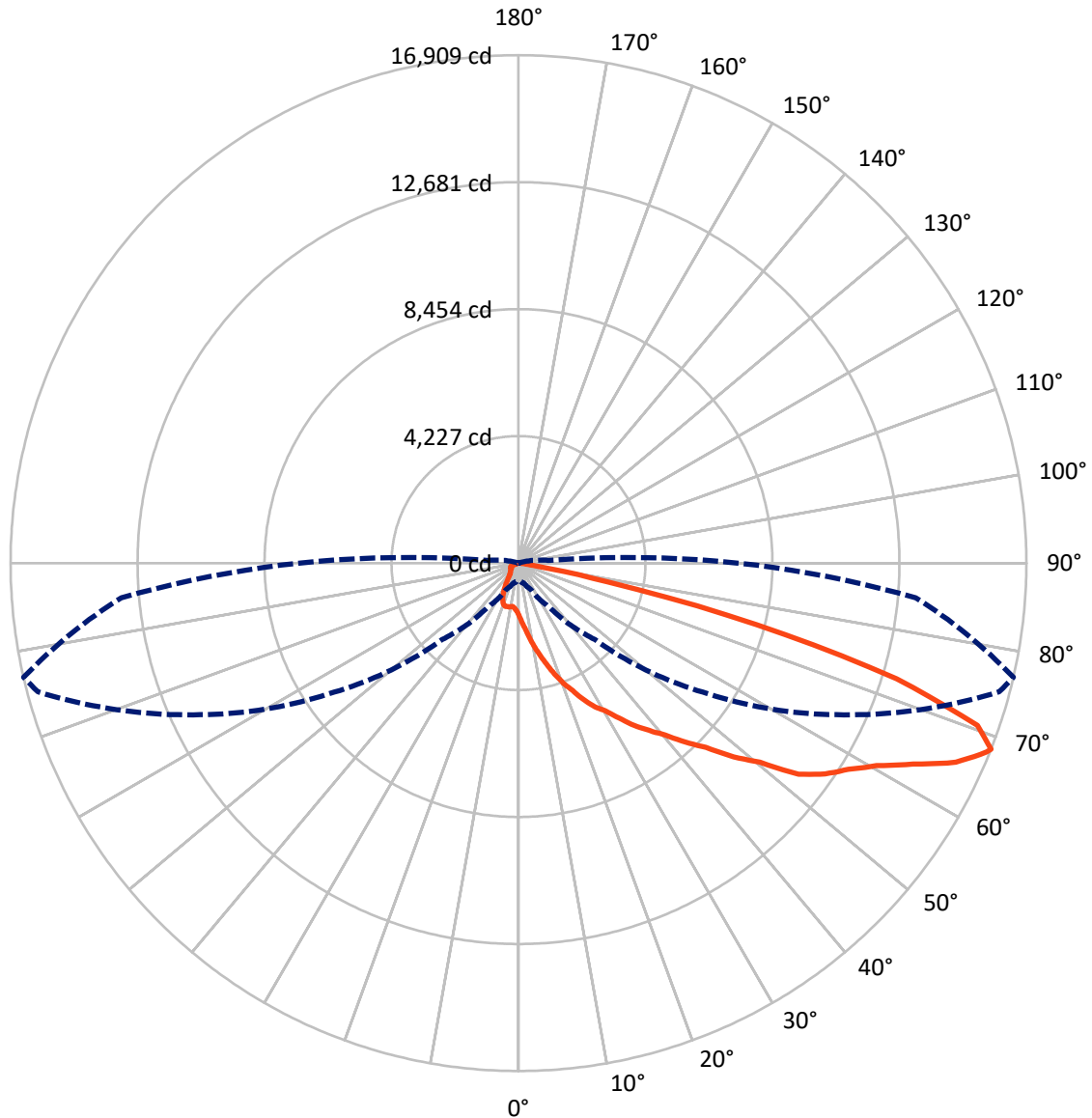
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	819.9	0.0	819.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17260.3	0.0	17260.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	18080.3	0.0	18080.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.1
10°-20°	745.9	4.1
20°-30°	1445.6	8.0
30°-40°	2520.2	13.9
40°-50°	3691.1	20.4
50°-60°	4336.4	24.0
60°-70°	3661.7	20.3
70°-80°	1419.4	7.9
80°-90°	57.7	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°	18080.3	100.0
0°-180°	18080.3	100.0

Coefficient of Utilization

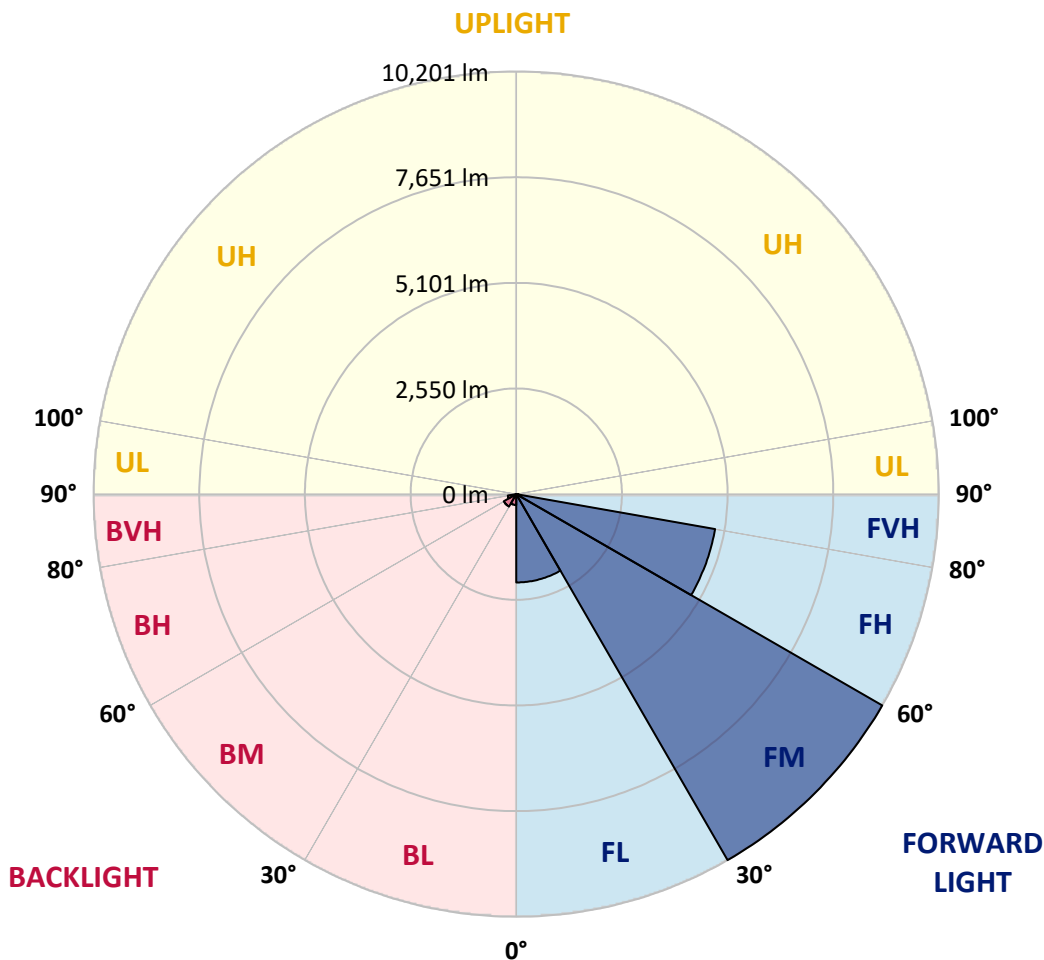


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.8	11.8			
FM (30°-60°)	10201.2	56.4			
FH (60°-80°)	4874.1	27.0			G2/5000
FVH (80°-90°)	53.2	0.3			G1/100
BL (0°-30°)	262.0	1.4	B1/500		
BM (30°-60°)	346.5	1.9	B1/1000		
BH (60°-80°)	207.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2
2.5°	2630.4	2580.6	2528.3	2513.4	2416.2	2306.6	2204.5	2104.9	1938.0	1940.5	1825.9
5°	3390.2	3327.9	3285.6	3275.6	3123.7	2934.3	2779.9	2498.4	2221.9	2159.7	1950.4
7.5°	4015.4	3995.5	3933.2	3880.9	3768.8	3537.2	3355.3	2951.8	2530.8	2461.1	2102.4
10°	4394.0	4423.9	4451.3	4384.1	4296.9	4130.0	3880.9	3445.0	2882.0	2794.9	2299.2
12.5°	4797.6	4747.8	4765.2	4820.0	4705.4	4668.0	4359.2	3953.1	3293.0	3126.1	2548.2
15°	4902.2	4922.1	4964.5	5123.9	5201.1	5094.0	4827.5	4364.2	3719.0	3487.3	2779.9
17.5°	4971.9	4962.0	5014.3	5253.4	5370.5	5472.6	5305.7	4822.5	4090.1	3883.4	3068.9
20°	5059.1	5004.3	5118.9	5270.9	5542.4	5756.6	5749.1	5283.3	4478.7	4259.5	3355.3
22.5°	5383.0	5340.6	5432.8	5447.7	5637.0	5935.9	6008.2	5659.4	4877.3	4608.3	3664.2
25°	5980.8	6058.0	5948.4	5853.7	5911.0	6107.8	6160.1	5993.2	5278.3	5031.7	3973.1
27.5°	6855.1	6845.1	6628.4	6506.4	6369.4	6344.5	6381.8	6304.6	5594.7	5417.8	4227.1
30°	7794.2	7712.0	7512.7	7218.8	6917.4	6730.6	6678.2	6598.5	5965.8	5709.3	4478.7
32.5°	8541.5	8586.3	8364.6	7981.0	7480.3	7228.7	6977.2	6890.0	6374.4	6147.7	4767.7
35°	9229.0	9169.2	8992.3	8668.5	8220.1	7814.1	7420.6	7233.7	6865.1	6640.9	5086.5
37.5°	9737.1	9811.9	9475.6	9166.7	8720.8	8384.6	7998.5	7589.9	7370.7	7071.8	5475.1
40°	10217.9	10100.8	9874.1	9590.2	9176.7	8920.1	8666.0	8028.3	7908.8	7522.7	5913.5
42.5°	10133.2	10140.7	10016.1	9787.0	9488.0	9341.1	9253.9	8561.4	8397.0	8150.4	6342.0
45°	9787.0	9816.9	9859.2	9747.1	9772.0	9625.0	9859.2	9174.2	9012.3	8750.7	6835.2
47.5°	9405.8	9455.7	9445.7	9650.0	9881.6	9931.4	10516.8	9854.2	9784.5	9640.0	7517.7
50°	8773.1	8793.1	8984.9	9356.0	9672.4	10193.0	11010.0	10596.5	10703.6	10419.7	8329.8
52.5°	7692.1	7764.3	8257.5	8788.1	9425.8	10325.0	11343.8	11700.0	11971.5	11680.1	9109.4
55°	6324.5	6424.2	6909.9	7903.8	8837.9	10125.7	11647.7	12282.9	12833.4	12392.5	9582.7
57.5°	5089.0	5099.0	5534.9	6561.2	8003.4	9734.6	11802.1	12566.9	13306.7	12953.0	10160.6
60°	3878.4	3838.6	4229.6	5118.9	6598.5	8773.1	11416.0	12711.3	13897.0	13692.8	10855.6
62.5°	2495.9	2433.7	2859.6	3726.5	5153.8	7171.5	10643.8	12713.8	14818.7	14741.5	12018.9
65°	1235.5	1193.2	1559.3	2284.2	3567.0	5485.1	9542.8	12666.5	15944.6	15994.4	13152.2
67.5°	652.6	667.6	784.7	1158.3	2057.5	3875.9	7883.9	12111.0	16520.0	16799.0	13426.2
68°	600.3	605.3	697.5	964.0	1786.0	3594.4	7490.3	11949.1	16564.8	16908.6	13274.3
70°	488.2	495.7	528.1	605.3	966.5	2339.0	5779.0	10574.1	15889.8	16203.7	12016.4
72.5°	388.6	411.0	430.9	463.3	567.9	1228.0	3594.4	8240.1	13127.3	13162.2	9353.5
75°	296.4	313.9	353.7	381.1	443.4	675.0	1711.3	5024.3	8613.7	8190.3	5510.0
77.5°	229.2	244.1	261.6	298.9	371.2	455.8	523.1	2132.3	3659.2	3011.6	1556.8
80°	137.0	147.0	204.3	234.1	323.8	308.9	206.7	592.8	742.3	585.4	284.0
82.5°	79.7	87.2	117.1	179.3	226.7	166.9	122.1	184.3	181.8	159.4	94.7
85°	2.5	5.0	64.8	107.1	79.7	44.8	74.7	77.2	64.8	59.8	42.3
87.5°	0.0	2.5	17.4	14.9	17.4	10.0	14.9	19.9	24.9	22.4	17.4
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°	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2	1731.2
2.5°	1748.6	1693.8	1571.8	1479.6	1380.0	1320.2	1260.4	1223.1	1203.1	1190.7	1200.6
5°	1793.5	1678.9	1482.1	1307.8	1193.2	1115.9	1038.7	998.9	961.5	941.6	954.0
7.5°	1893.1	1721.2	1394.9	1205.6	1071.1	951.5	854.4	777.2	732.3	692.5	700.0
10°	2015.2	1746.2	1397.4	1145.8	951.5	762.2	625.2	528.1	473.3	438.4	435.9
12.5°	2139.7	1843.3	1407.4	1086.1	804.6	572.9	411.0	338.8	306.4	289.0	289.0
15°	2329.0	1930.5	1382.5	976.5	610.3	373.6	281.5	256.6	244.1	229.2	231.7
17.5°	2493.4	2070.0	1370.0	812.1	418.5	269.0	234.1	206.7	194.3	179.3	179.3
20°	2715.1	2157.2	1302.8	627.7	289.0	224.2	189.3	164.4	144.5	132.0	134.5
22.5°	2916.9	2224.4	1183.2	428.4	221.7	176.9	139.5	114.6	97.1	82.2	84.7
25°	3136.1	2291.7	1008.8	264.0	156.9	109.6	74.7	54.8	37.4	27.4	27.4
27.5°	3293.0	2311.6	782.2	156.9	94.7	49.8	17.4	2.5	0.0	0.0	0.0
30°	3452.5	2319.1	540.5	84.7	37.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3634.3	2316.6	338.8	44.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	3773.8	2274.2	161.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3985.5	2212.0	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4227.1	2099.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4443.9	1985.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4690.5	1843.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5123.9	1783.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5689.3	1736.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6038.1	1596.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6219.9	1452.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6488.9	1382.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6887.5	1387.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7510.2	1457.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7854.0	1387.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7562.5	1111.0	47.3	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	7311.0	1021.3	47.3	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	6043.1	665.1	44.8	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4401.5	368.7	37.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2560.7	184.3	27.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	667.6	92.2	22.4	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	132.0	59.8	19.9	14.9	10.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.3	42.3	19.9	14.9	12.5	7.5	2.5	0.0	0.0	0.0	0.0
85°	32.4	19.9	19.9	14.9	14.9	10.0	5.0	0.0	0.0	0.0	0.0
87.5°	14.9	7.5	7.5	7.5	7.5	5.0	2.5	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)