

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: P482058

Luminaire Tested: **IFLD-S-SA3C-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482058
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

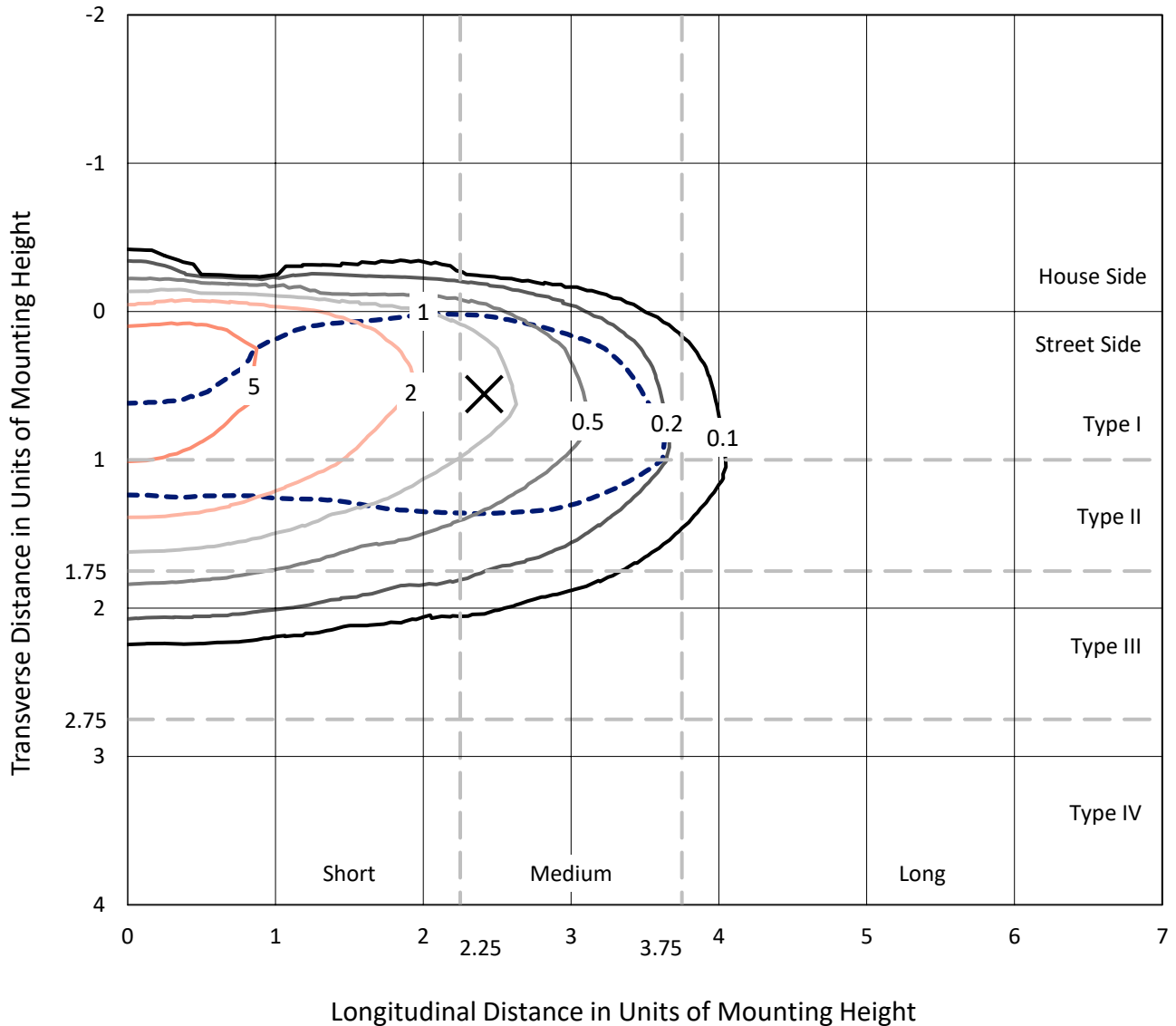
Lumens per Lamp: N/A
Luminaire Lumens: 16653.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

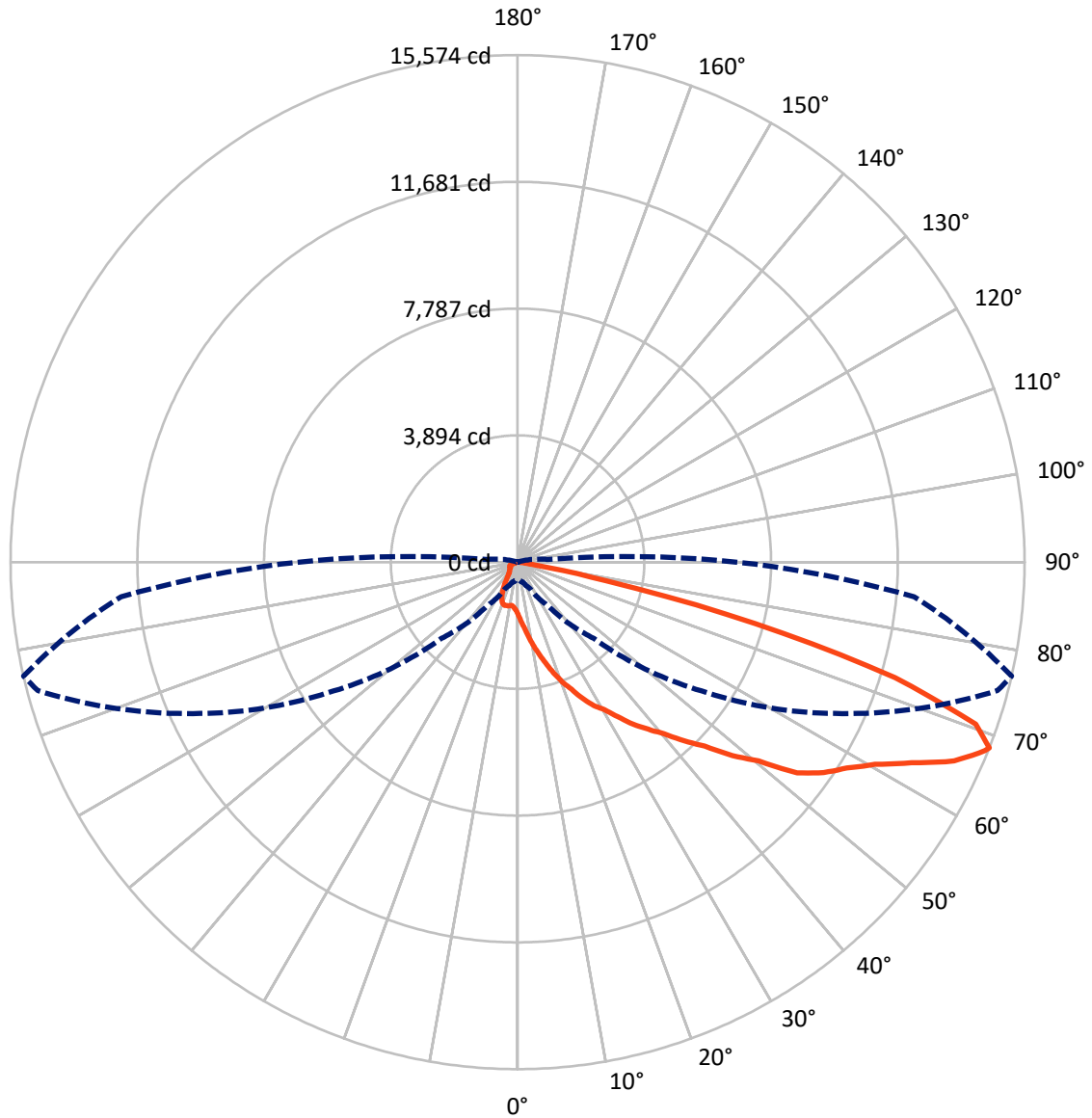
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	755.2	0.0	755.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	15898.2	0.0	15898.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	16653.5	0.0	16653.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	1.1
10°-20°	687.1	4.1
20°-30°	1331.5	8.0
30°-40°	2321.3	13.9
40°-50°	3399.8	20.4
50°-60°	3994.2	24.0
60°-70°	3372.8	20.3
70°-80°	1307.4	7.9
80°-90°	53.2	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°	16653.5	100.0
0°-180°	16653.5	100.0

Coefficient of Utilization



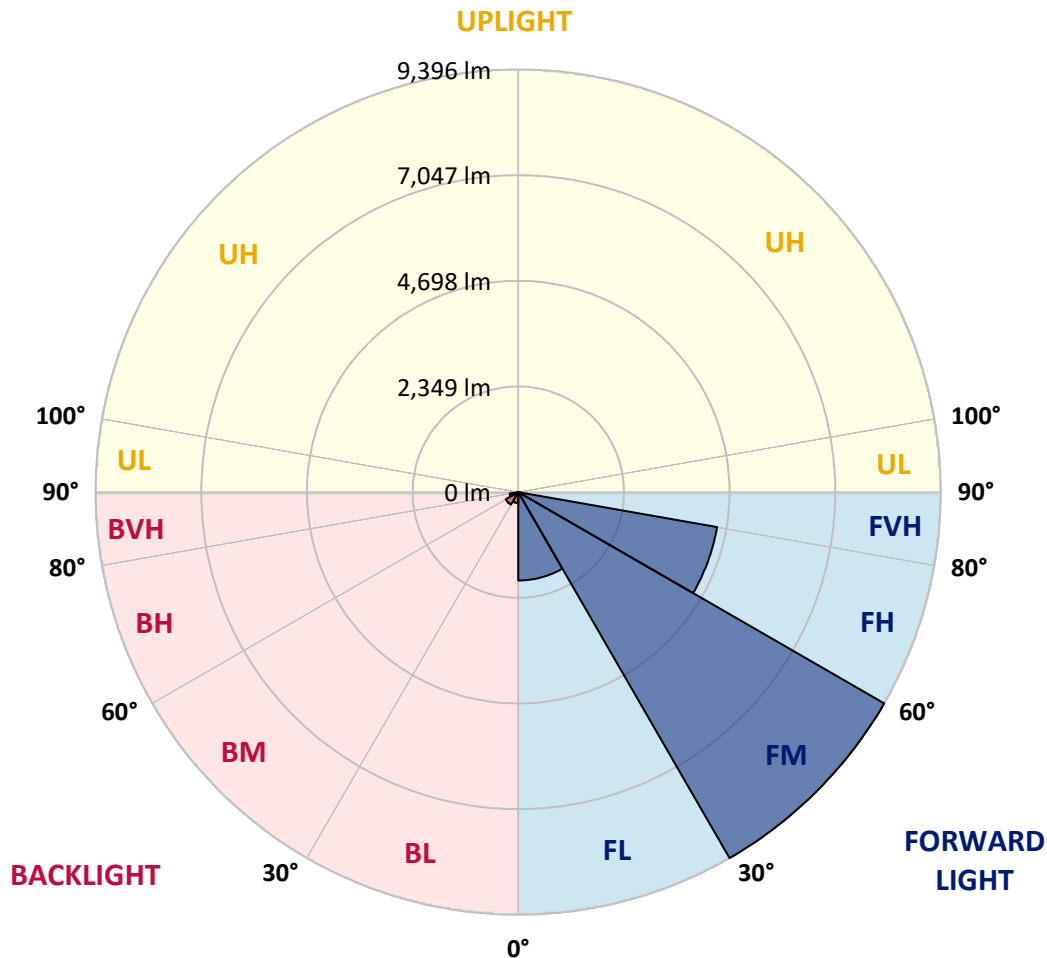
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.6	11.8			
FM (30°-60°)	9396.2	56.4			
FH (60°-80°)	4489.4	27.0			G2/5000
FVH (80°-90°)	49.0	0.3			G1/100
BL (0°-30°)	241.3	1.4	B1/500		
BM (30°-60°)	319.1	1.9	B1/1000		
BH (60°-80°)	190.7	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6
2.5°	2422.9	2377.0	2328.8	2315.0	2225.5	2124.6	2030.5	1938.7	1785.0	1787.3	1681.8
5°	3122.6	3065.3	3026.3	3017.1	2877.1	2702.8	2560.5	2301.3	2046.6	1989.2	1796.5
7.5°	3698.5	3680.2	3622.8	3574.6	3471.4	3258.0	3090.5	2718.8	2331.1	2266.8	1936.5
10°	4047.3	4074.8	4100.0	4038.1	3957.8	3804.1	3574.6	3173.1	2654.6	2574.3	2117.7
12.5°	4419.0	4373.1	4389.1	4439.6	4334.1	4299.7	4015.2	3641.2	3033.2	2879.4	2347.1
15°	4515.3	4533.7	4572.7	4719.5	4790.7	4692.0	4446.5	4019.7	3425.5	3212.1	2560.5
17.5°	4579.6	4570.4	4618.6	4838.8	4946.7	5040.7	4887.0	4441.9	3767.4	3576.9	2826.7
20°	4659.9	4609.4	4714.9	4854.9	5105.0	5302.3	5295.4	4866.4	4125.3	3923.4	3090.5
22.5°	4958.1	4919.1	5004.0	5017.8	5192.2	5467.5	5534.0	5212.8	4492.4	4244.6	3375.0
25°	5508.8	5579.9	5479.0	5391.8	5444.6	5625.8	5674.0	5520.3	4861.8	4634.6	3659.5
27.5°	6314.1	6304.9	6105.3	5992.9	5866.7	5843.8	5878.2	5807.1	5153.2	4990.3	3893.6
30°	7179.1	7103.4	6919.8	6649.1	6371.5	6199.4	6151.2	6077.8	5495.0	5258.7	4125.3
32.5°	7867.4	7908.7	7704.5	7351.2	6890.0	6658.3	6426.5	6346.2	5871.3	5662.5	4391.4
35°	8500.7	8445.6	8282.7	7984.4	7571.4	7197.5	6834.9	6662.9	6323.3	6116.8	4685.1
37.5°	8968.7	9037.5	8727.8	8443.3	8032.6	7722.9	7367.2	6991.0	6789.1	6513.7	5043.0
40°	9411.5	9303.7	9094.9	8833.3	8452.5	8216.2	7982.1	7394.8	7284.6	6929.0	5446.8
42.5°	9333.5	9340.4	9225.7	9014.6	8739.3	8603.9	8523.6	7885.8	7734.3	7507.2	5841.5
45°	9014.6	9042.1	9081.1	8977.9	9000.8	8865.5	9081.1	8450.2	8301.1	8060.1	6295.8
47.5°	8663.6	8709.5	8700.3	8888.4	9101.8	9147.7	9686.9	9076.6	9012.3	8879.2	6924.4
50°	8080.8	8099.1	8275.8	8617.7	8909.1	9388.6	10141.1	9760.3	9858.9	9597.4	7672.4
52.5°	7085.0	7151.6	7605.9	8094.6	8681.9	9510.2	10448.6	10776.7	11026.8	10758.3	8390.5
55°	5825.4	5917.2	6364.6	7280.1	8140.4	9326.6	10728.5	11313.6	11820.6	11414.5	8826.5
57.5°	4687.4	4696.6	5098.1	6043.4	7371.8	8966.4	10870.8	11575.1	12256.6	11930.8	9358.8
60°	3572.3	3535.6	3895.9	4714.9	6077.8	8080.8	10515.1	11708.2	12800.3	12612.2	9998.9
62.5°	2299.0	2241.6	2633.9	3432.4	4747.1	6605.5	9803.9	11710.5	13649.2	13578.1	11070.4
65°	1138.0	1099.0	1436.3	2103.9	3285.5	5052.2	8789.8	11666.9	14686.3	14732.2	12114.3
67.5°	601.1	614.9	722.7	1066.9	1895.2	3570.0	7261.7	11155.3	15216.3	15473.3	12366.7
68°	552.9	557.5	642.4	887.9	1645.1	3310.8	6899.2	11006.1	15257.6	15574.2	12226.7
70°	449.7	456.6	486.4	557.5	890.2	2154.4	5323.0	9739.6	14635.8	14924.9	11068.1
72.5°	357.9	378.6	396.9	426.8	523.1	1131.1	3310.8	7589.8	12091.4	12123.5	8615.4
75°	273.0	289.1	325.8	351.0	408.4	621.8	1576.2	4627.8	7934.0	7543.9	5075.2
77.5°	211.1	224.8	240.9	275.3	341.9	419.9	481.8	1964.0	3370.4	2773.9	1434.0
80°	126.2	135.4	188.1	215.7	298.3	284.5	190.4	546.1	683.7	539.2	261.6
82.5°	73.4	80.3	107.8	165.2	208.8	153.7	112.4	169.8	167.5	146.8	87.2
85°	2.3	4.6	59.7	98.7	73.4	41.3	68.8	71.1	59.7	55.1	39.0
87.5°	0.0	2.3	16.1	13.8	16.1	9.2	13.8	18.4	22.9	20.6	16.1
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°	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6
2.5°	1610.7	1560.2	1447.8	1362.9	1271.1	1216.0	1161.0	1126.5	1108.2	1096.7	1105.9
5°	1652.0	1546.4	1365.2	1204.5	1099.0	1027.9	956.8	920.0	885.6	867.3	878.7
7.5°	1743.7	1585.4	1284.9	1110.5	986.6	876.5	787.0	715.8	674.5	637.8	644.7
10°	1856.2	1608.4	1287.1	1055.4	876.5	702.1	575.9	486.4	435.9	403.8	401.5
12.5°	1970.9	1697.8	1296.3	1000.3	741.1	527.7	378.6	312.0	282.2	266.1	266.1
15°	2145.2	1778.1	1273.4	899.4	562.1	344.2	259.3	236.3	224.8	211.1	213.4
17.5°	2296.7	1906.6	1261.9	748.0	385.5	247.8	215.7	190.4	179.0	165.2	165.2
20°	2500.9	1986.9	1200.0	578.2	266.1	206.5	174.4	151.4	133.1	121.6	123.9
22.5°	2686.7	2048.9	1089.8	394.6	204.2	162.9	128.5	105.5	89.5	75.7	78.0
25°	2888.6	2110.8	929.2	243.2	144.5	101.0	68.8	50.5	34.4	25.2	25.2
27.5°	3033.2	2129.2	720.4	144.5	87.2	45.9	16.1	2.3	0.0	0.0	0.0
30°	3180.0	2136.1	497.9	78.0	34.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3347.5	2133.8	312.0	41.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	3476.0	2094.8	149.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3671.0	2037.4	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3893.6	1934.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4093.2	1828.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4320.3	1697.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4719.5	1642.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5240.4	1599.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5561.6	1470.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5729.1	1337.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5976.8	1273.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6343.9	1278.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6917.5	1342.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7234.2	1278.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6965.7	1023.3	43.6	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	6734.0	940.7	43.6	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	5566.2	612.6	41.3	11.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4054.2	339.6	34.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2358.6	169.8	25.2	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	614.9	84.9	20.6	11.5	6.9	2.3	0.0	0.0	0.0	0.0	0.0
80°	121.6	55.1	18.4	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	57.4	39.0	18.4	13.8	11.5	6.9	2.3	0.0	0.0	0.0	0.0
85°	29.8	18.4	18.4	13.8	13.8	9.2	4.6	0.0	0.0	0.0	0.0
87.5°	13.8	6.9	6.9	6.9	6.9	4.6	2.3	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)