

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: P482020

Luminaire Tested: **IFLD-S-SA3D-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482020
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18073.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

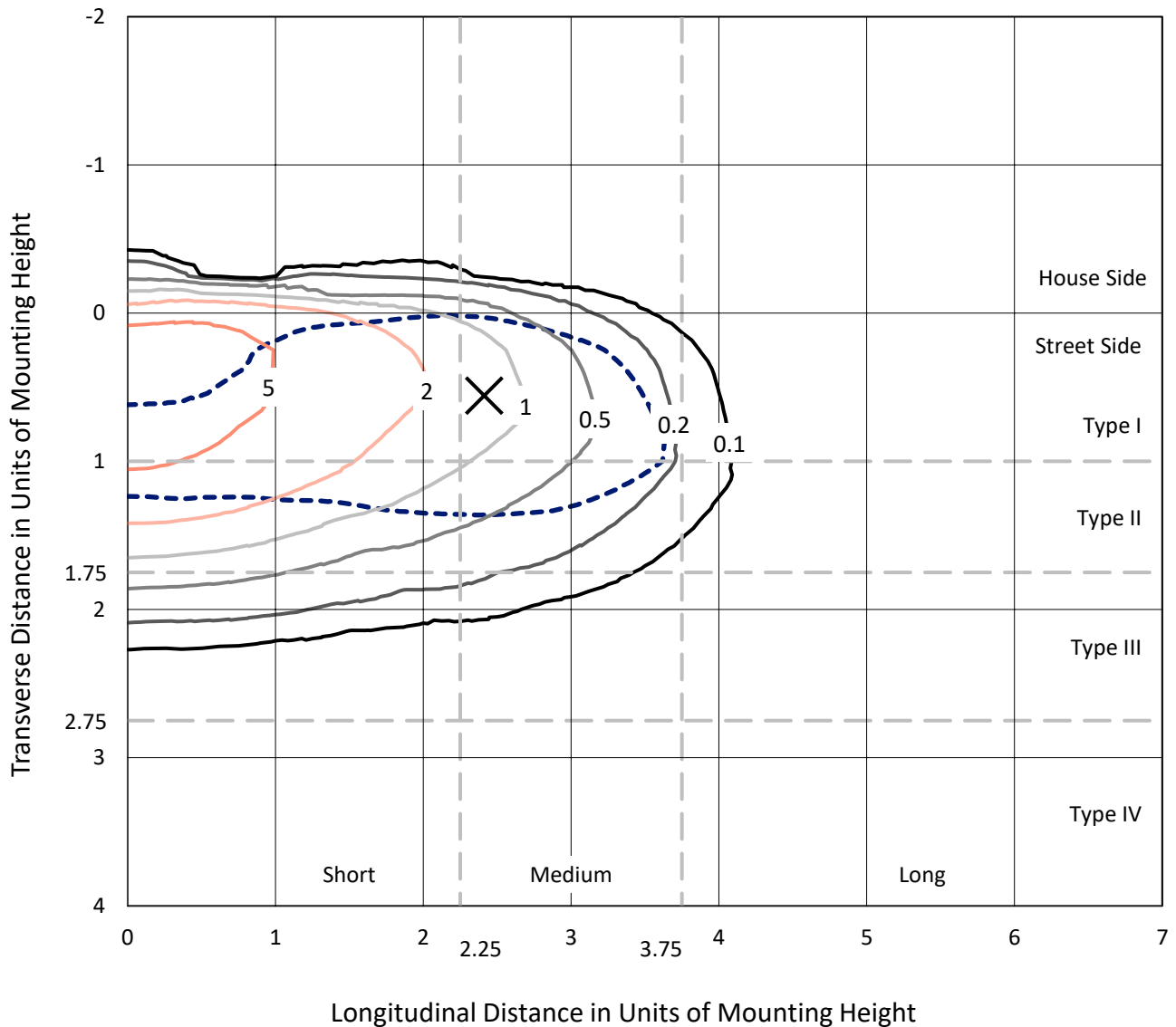
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P482020
 CATALOG NUMBER: IFLD-S-SA3D-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

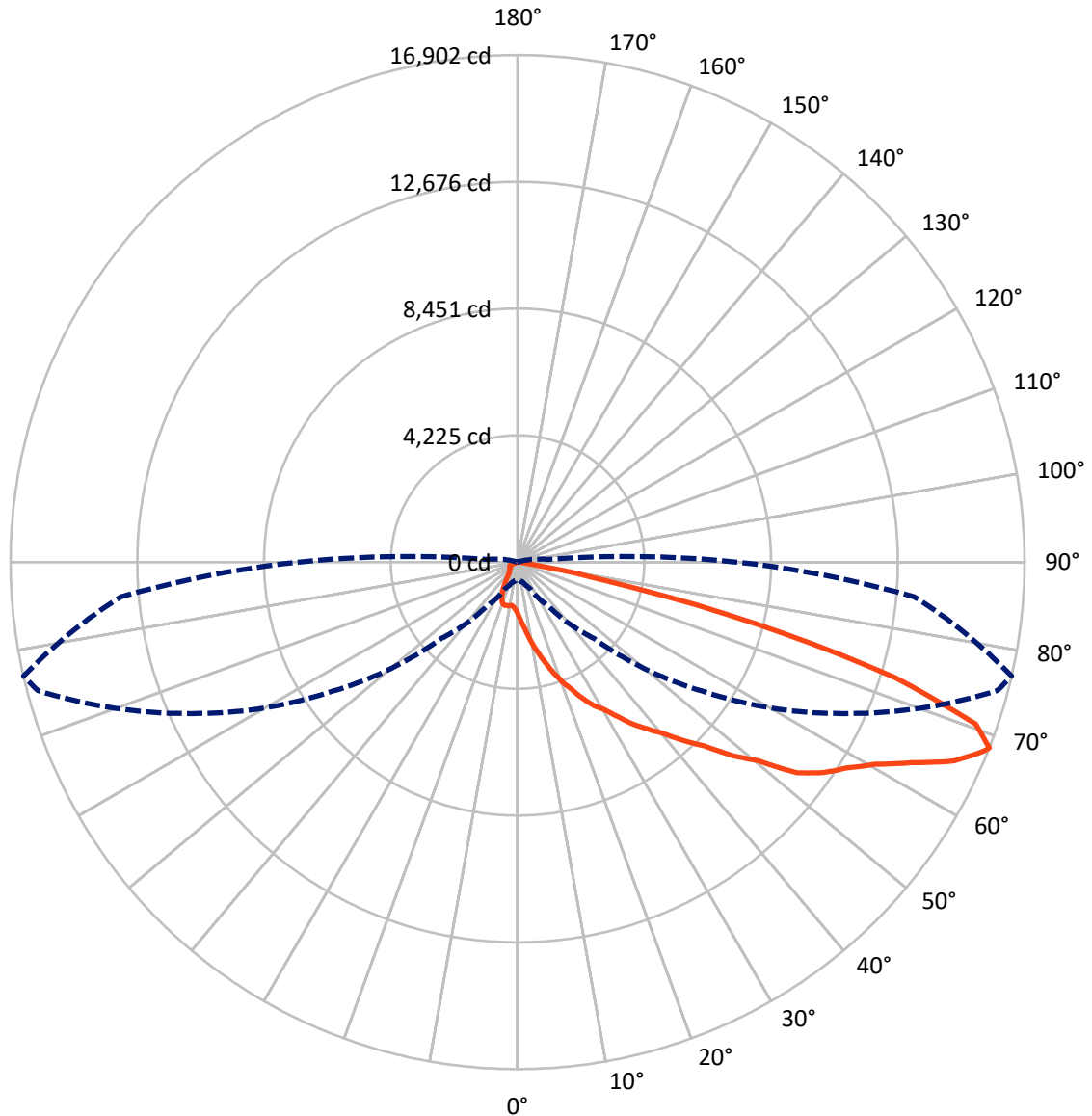
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P482020
CATALOG NUMBER: IFLD-S-SA3D-735-U-T2R-HSS

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	819.6	0.0	819.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17253.5	0.0	17253.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	18073.1	0.0	18073.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	1.1
10°-20°	745.6	4.1
20°-30°	1445.0	8.0
30°-40°	2519.2	13.9
40°-50°	3689.6	20.4
50°-60°	4334.7	24.0
60°-70°	3660.3	20.3
70°-80°	1418.8	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°	18073.1	100.0
0°-180°	18073.1	100.0

Coefficient of Utilization

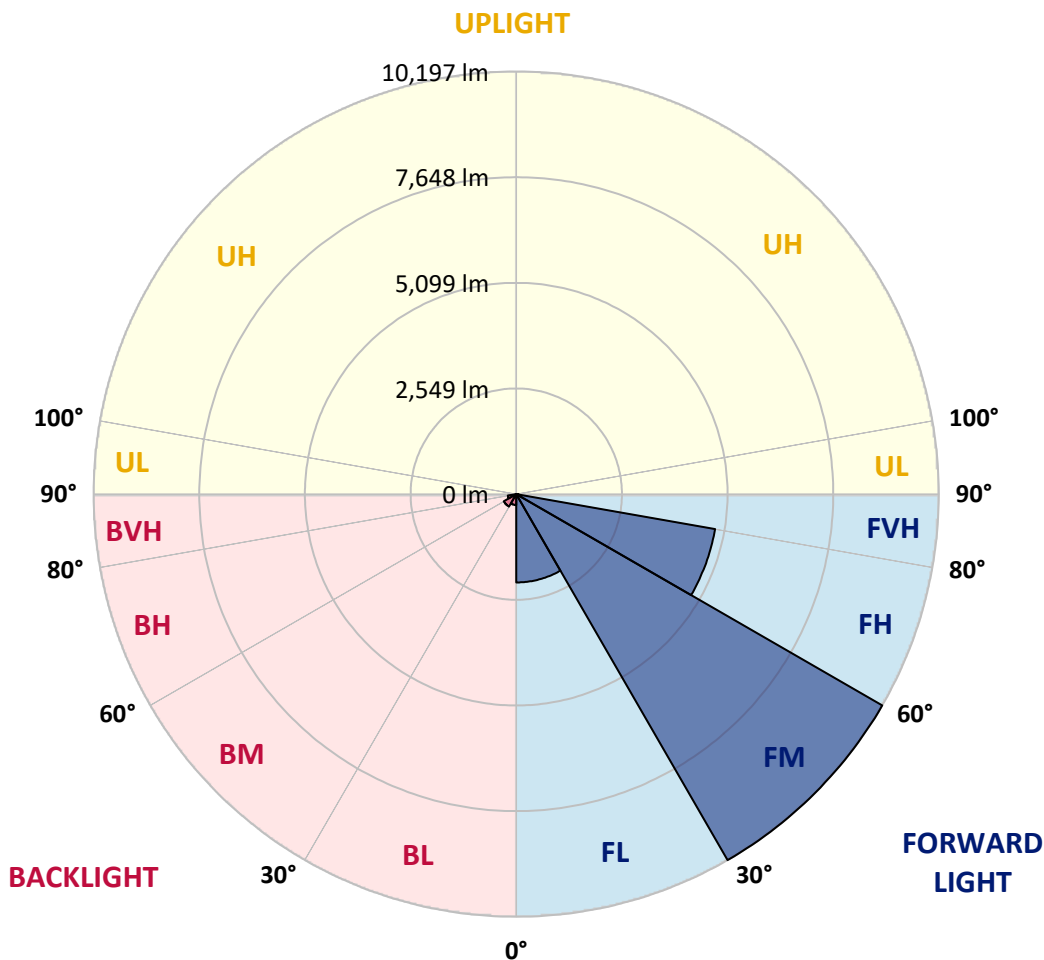


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.0	11.8			
FM (30°-60°)	10197.2	56.4			
FH (60°-80°)	4872.1	27.0			G2/5000
FVH (80°-90°)	53.2	0.3			G1/100
BL (0°-30°)	261.9	1.4	B1/500		
BM (30°-60°)	346.3	1.9	B1/1000		
BH (60°-80°)	206.9	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





REPORT NUMBER: P482020

CATALOG NUMBER: IFLD-S-SA3D-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	2629.4	2579.6	2527.3	2512.4	2415.3	2305.7	2203.6	2104.0	1937.2	1939.7	1825.1
5°	3388.8	3326.6	3284.3	3274.3	3122.4	2933.2	2778.8	2497.4	2221.1	2158.8	1949.6
7.5°	4013.8	3993.9	3931.7	3879.4	3767.3	3535.8	3354.0	2950.6	2529.8	2460.1	2101.5
10°	4392.3	4422.2	4449.6	4382.3	4295.2	4128.4	3879.4	3443.6	2880.9	2793.7	2298.2
12.5°	4795.7	4745.9	4763.3	4818.1	4703.5	4666.2	4357.4	3951.6	3291.7	3124.9	2547.2
15°	4900.3	4920.2	4962.5	5121.9	5199.1	5092.0	4825.6	4362.4	3717.5	3486.0	2778.8
17.5°	4970.0	4960.0	5012.3	5251.3	5368.4	5470.5	5303.6	4820.6	4088.5	3881.9	3067.6
20°	5057.1	5002.3	5116.9	5268.8	5540.2	5754.3	5746.8	5281.2	4477.0	4257.8	3354.0
22.5°	5380.8	5338.5	5430.6	5445.6	5634.8	5933.6	6005.8	5657.2	4875.4	4606.4	3662.7
25°	5978.4	6055.6	5946.0	5851.4	5908.7	6105.4	6157.7	5990.9	5276.2	5029.7	3971.5
27.5°	6852.4	6842.4	6625.8	6503.8	6366.8	6341.9	6379.3	6302.1	5592.5	5415.7	4225.5
30°	7791.1	7708.9	7509.7	7215.9	6914.6	6727.9	6675.6	6595.9	5963.5	5707.0	4477.0
32.5°	8538.1	8582.9	8361.3	7977.9	7477.4	7225.9	6974.4	6887.2	6371.8	6145.2	4765.8
35°	9225.3	9165.6	8988.8	8665.1	8216.9	7811.0	7417.6	7230.9	6862.3	6638.3	5084.5
37.5°	9733.3	9808.0	9471.8	9163.1	8717.4	8381.2	7995.3	7586.9	7367.8	7069.0	5472.9
40°	10213.8	10096.8	9870.2	9586.4	9173.0	8916.6	8662.6	8025.2	7905.6	7519.7	5911.2
42.5°	10129.2	10136.7	10012.2	9783.1	9484.3	9337.4	9250.2	8558.0	8393.7	8147.2	6339.5
45°	9783.1	9813.0	9855.3	9743.2	9768.1	9621.2	9855.3	9170.5	9008.7	8747.3	6832.5
47.5°	9402.1	9451.9	9442.0	9646.1	9877.7	9927.5	10512.6	9850.3	9780.6	9636.2	7514.7
50°	8769.7	8789.6	8981.3	9352.3	9668.5	10188.9	11005.7	10592.3	10699.4	10415.5	8326.5
52.5°	7689.0	7761.2	8254.2	8784.6	9422.0	10320.9	11339.3	11695.4	11966.8	11675.5	9105.8
55°	6322.0	6421.6	6907.2	7900.7	8834.4	10121.7	11643.1	12278.0	12828.3	12387.6	9578.9
57.5°	5087.0	5097.0	5532.7	6558.6	8000.3	9730.8	11797.5	12561.9	13301.4	12947.8	10156.6
60°	3876.9	3837.0	4228.0	5116.9	6595.9	8769.7	11411.5	12706.3	13891.5	13687.3	10851.3
62.5°	2494.9	2432.7	2858.5	3725.0	5151.7	7168.6	10639.6	12708.8	14812.8	14735.6	12014.1
65°	1235.0	1192.7	1558.7	2283.3	3565.6	5482.9	9539.1	12661.5	15938.3	15988.1	13147.0
67.5°	652.4	667.3	784.3	1157.8	2056.7	3874.4	7880.7	12106.2	16513.5	16792.3	13420.9
68°	600.1	605.1	697.2	963.6	1785.3	3593.0	7487.3	11944.4	16558.3	16901.9	13269.0
70°	488.0	495.5	527.9	605.1	966.1	2338.1	5776.7	10569.9	15883.5	16197.2	12011.6
72.5°	388.4	410.8	430.8	463.1	567.7	1227.6	3593.0	8236.8	13122.1	13157.0	9349.8
75°	296.3	313.7	353.6	381.0	443.2	674.8	1710.6	5022.3	8610.3	8187.0	5507.8
77.5°	229.1	244.0	261.4	298.8	371.0	455.7	522.9	2131.4	3657.8	3010.4	1556.2
80°	136.9	146.9	204.2	234.1	323.7	308.8	206.7	592.6	742.0	585.1	283.9
82.5°	79.7	87.1	117.0	179.3	226.6	166.8	122.0	184.3	181.8	159.4	94.6
85°	2.5	5.0	64.7	107.1	79.7	44.8	74.7	77.2	64.7	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°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1748.0	1693.2	1571.2	1479.0	1379.4	1319.7	1259.9	1222.6	1202.7	1190.2	1200.2
5°	1792.8	1678.2	1481.5	1307.2	1192.7	1115.5	1038.3	998.5	961.1	941.2	953.7
7.5°	1892.4	1720.6	1394.4	1205.1	1070.7	951.2	854.1	776.9	732.1	692.2	699.7
10°	2014.4	1745.5	1396.9	1145.4	951.2	761.9	625.0	527.9	473.1	438.2	435.7
12.5°	2138.9	1842.6	1406.8	1085.6	804.3	572.7	410.8	338.6	306.3	288.8	288.8
15°	2328.1	1929.7	1381.9	976.1	610.0	373.5	281.4	256.5	244.0	229.1	231.6
17.5°	2492.5	2069.2	1369.5	811.7	418.3	268.9	234.1	206.7	194.2	179.3	179.3
20°	2714.1	2156.3	1302.3	627.5	288.8	224.1	189.2	164.3	144.4	132.0	134.5
22.5°	2915.8	2223.5	1182.7	428.3	221.6	176.8	139.4	114.5	97.1	82.2	84.7
25°	3134.9	2290.8	1008.4	263.9	156.9	109.6	74.7	54.8	37.3	27.4	27.4
27.5°	3291.7	2310.7	781.8	156.9	94.6	49.8	17.4	2.5	0.0	0.0	0.0
30°	3451.1	2318.2	540.3	84.7	37.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3632.9	2315.7	338.6	44.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	3772.3	2273.3	161.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3983.9	2211.1	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4225.5	2099.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4442.1	1984.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4688.6	1842.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5121.9	1782.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5687.1	1735.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6035.7	1596.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6217.4	1451.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6486.4	1381.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6884.8	1386.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7507.3	1456.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7850.9	1386.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7559.5	1110.5	47.3	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	7308.1	1020.9	47.3	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	6040.7	664.8	44.8	12.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4399.8	368.5	37.3	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2559.7	184.3	27.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	667.3	92.1	22.4	12.4	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°	62.2	42.3	19.9	14.9	12.4	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)