

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: P481621

Luminaire Tested: **IFLD-L-SA8D-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481621
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

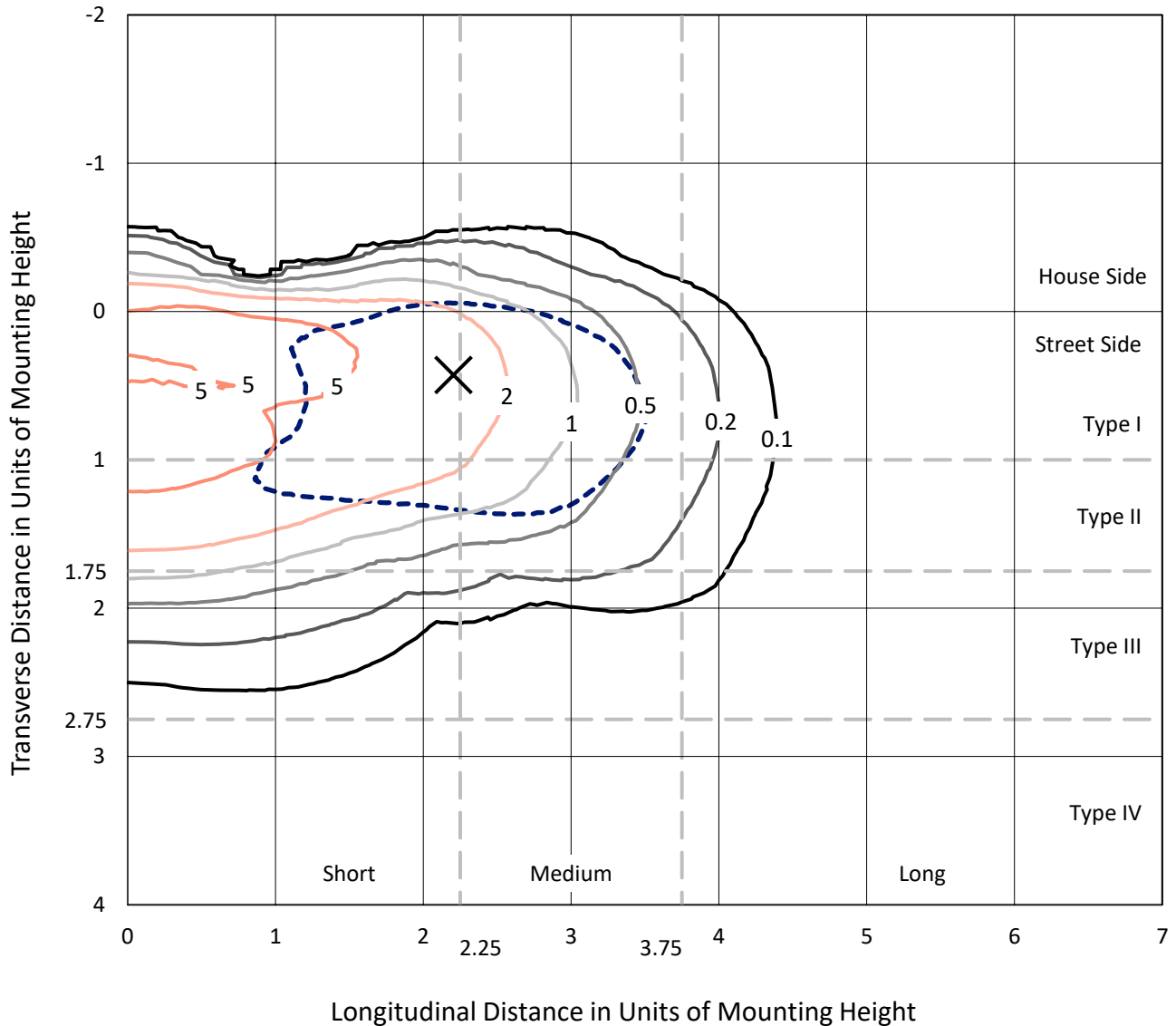
Lumens per Lamp: N/A
Luminaire Lumens: 36556.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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: P481621
 CATALOG NUMBER: IFLD-L-SA8D-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

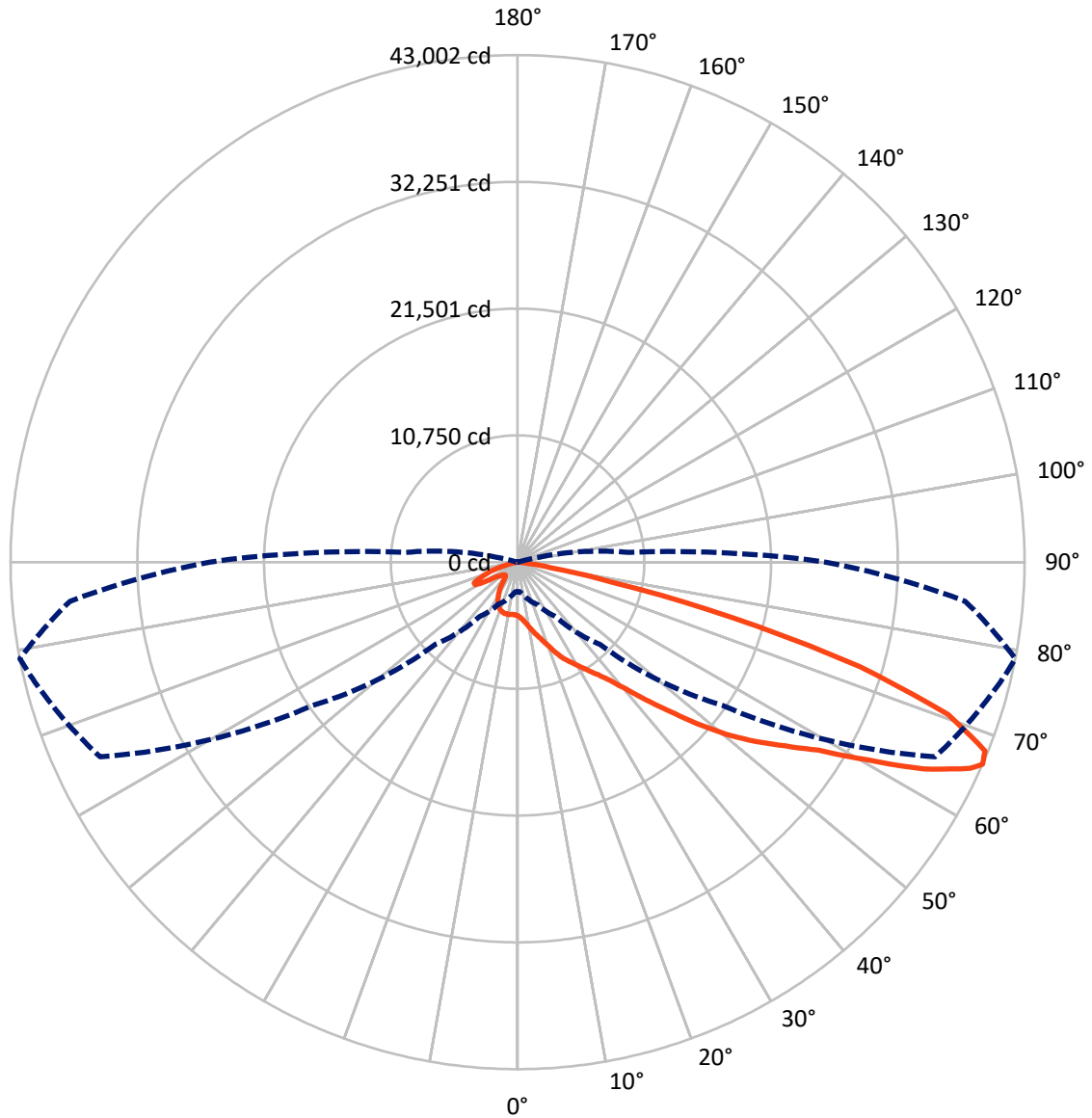
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481621
CATALOG NUMBER: IFLD-L-SA8D-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481621
 CATALOG NUMBER: IFLD-L-SA8D-730-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2744.9	0.0	2744.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	33812.0	0.0	33812.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	36556.9	0.0	36556.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.1	1.2
10°-20°	1183.8	3.2
20°-30°	1966.5	5.4
30°-40°	3377.8	9.2
40°-50°	6119.3	16.7
50°-60°	9672.8	26.5
60°-70°	9842.8	26.9
70°-80°	3753.5	10.3
80°-90°	210.4	0.6
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°	36556.9	100.0
0°-180°	36556.9	100.0

Coefficient of Utilization



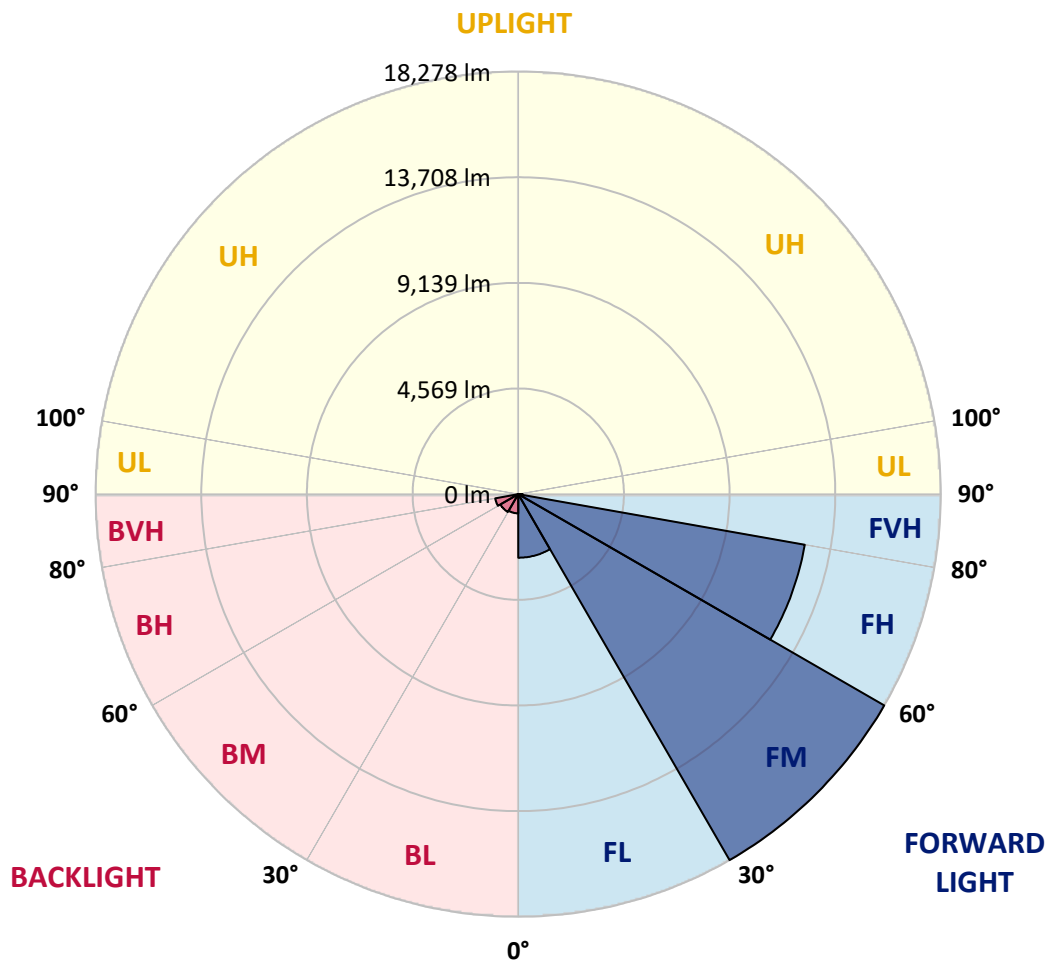
REPORT NUMBER: P481621
 CATALOG NUMBER: IFLD-L-SA8D-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2750.3	7.5			
FM (30°-60°)	18277.6	50.0			
FH (60°-80°)	12584.4	34.4			G5
FVH (80°-90°)	199.7	0.5			G2/225
BL (0°-30°)	830.1	2.3	B2/1000		
BM (30°-60°)	892.1	2.4	B1/1000		
BH (60°-80°)	1011.9	2.8	B3/2500		G3/2500
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P481621

CATALOG NUMBER: IFLD-L-SA8D-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1
2.5°	5151.2	5145.5	5123.0	5083.5	5032.8	5015.9	4942.6	4841.2	4784.8	4722.8	4694.7
5°	5506.2	5478.0	5545.7	5517.5	5528.8	5393.5	5303.3	5230.1	5015.9	4931.4	4796.1
7.5°	5585.1	5613.3	5607.7	5652.7	5697.8	5748.6	5686.6	5579.5	5365.3	5241.3	5094.8
10°	5585.1	5573.8	5618.9	5680.9	5810.6	5923.3	6092.3	5951.4	5788.0	5641.5	5376.6
12.5°	5483.7	5466.8	5511.9	5641.5	5872.5	6103.6	6289.6	6424.9	6193.8	6075.4	5731.7
15°	5173.7	5156.8	5342.8	5573.8	5878.2	6255.8	6644.7	6864.5	6706.7	6520.7	6137.4
17.5°	4790.5	4813.0	5010.3	5393.5	5878.2	6329.1	6825.0	7304.1	7281.5	7044.8	6644.7
20°	4660.8	4677.7	4875.0	5151.2	5703.5	6379.8	7106.8	7783.1	7918.4	7636.6	7112.4
22.5°	4908.8	4891.9	4908.8	5077.9	5585.1	6334.7	7292.8	8329.8	8572.1	8352.3	7726.7
25°	5754.2	5742.9	5602.0	5342.8	5517.5	6233.2	7388.6	8690.5	9248.4	9045.5	8222.7
27.5°	6994.1	6949.0	6729.2	6188.2	5833.1	6295.2	7546.4	9039.9	9840.2	9609.1	8667.9
30°	8324.1	8217.1	7929.6	7253.3	6650.3	6526.3	7636.6	9299.1	10499.6	10206.5	9056.8
32.5°	9242.8	9383.7	9293.5	8605.9	7681.7	7061.7	7783.1	9626.0	11108.2	10916.6	9721.8
35°	10663.0	10826.5	10448.9	9840.2	8910.3	7912.7	8093.1	9890.9	12043.8	11722.6	10341.8
37.5°	12455.2	12579.2	12308.7	11153.3	10172.7	8961.0	8729.9	10443.2	12849.7	12697.6	11136.4
40°	13356.9	13954.3	13571.1	12528.5	11474.6	10426.3	9783.8	11091.3	14253.0	14129.1	12235.4
42.5°	14602.5	14901.2	14703.9	13931.8	12832.8	11993.1	11085.7	12353.8	15955.1	15955.1	13723.3
45°	15921.3	15932.5	15921.3	15290.0	14315.0	13881.1	12844.1	13937.4	17786.7	17989.6	15504.2
47.5°	17003.3	17341.5	17313.3	16935.7	16180.5	16017.1	14602.5	15740.9	20086.1	20441.2	17240.0
50°	17561.3	17938.9	18051.6	18248.9	18215.0	18558.8	16524.3	17831.8	22070.0	22943.5	19471.8
52.5°	17409.1	17437.3	18130.5	18908.3	20148.1	21111.9	18840.6	20204.5	24391.9	25254.2	21196.4
55°	16163.6	16056.5	17482.4	18372.8	20937.2	22673.0	22047.4	23163.3	26201.0	27514.2	22977.3
57.5°	13430.2	13458.4	14777.2	16586.3	20351.0	23292.9	25474.0	27029.5	28737.2	30061.6	25479.6
60°	9271.0	9237.1	10713.7	12804.6	16907.5	22137.6	27446.6	32039.8	32129.9	34006.7	29971.4
62.5°	5213.2	5224.4	6346.0	8132.5	11829.6	18091.1	27350.7	37360.0	36976.8	38622.4	35077.5
65°	2953.2	3026.4	3798.6	4818.6	7084.3	12145.2	23524.0	39479.1	40713.3	42178.6	38177.2
66°	2496.7	2547.4	3206.8	3978.9	5652.7	9851.5	21173.9	39067.7	41885.6	43001.5	38115.2
67.5°	1933.1	2000.7	2553.0	3156.1	4148.0	6819.4	17042.8	37021.8	42099.7	42753.5	37038.8
70°	1324.4	1369.5	1792.2	2395.2	2834.8	3488.6	10189.6	30608.3	38199.7	38752.1	32191.9
72.5°	929.9	952.5	1256.8	1814.7	2181.1	1995.1	5055.4	21776.9	29233.1	30309.6	25040.0
75°	670.7	693.2	862.3	1301.9	1702.0	1307.5	2316.3	13909.3	17927.6	18773.0	15081.5
77.5°	484.7	512.9	586.1	839.7	1234.2	918.6	1138.4	7264.6	8453.8	8307.2	6486.9
80°	293.1	321.2	434.0	541.0	901.7	648.1	625.6	3032.1	2998.3	2846.1	2040.2
82.5°	135.3	157.8	231.1	366.3	631.2	450.9	298.7	1082.1	946.8	867.9	574.9
85°	39.5	50.7	135.3	276.2	321.2	219.8	180.3	372.0	388.9	332.5	191.6
87.5°	0.0	5.6	62.0	67.6	95.8	73.3	67.6	95.8	180.3	146.5	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481621

CATALOG NUMBER: IFLD-L-SA8D-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1	4548.1
2.5°	4593.2	4553.8	4458.0	4311.4	4181.8	4114.2	4018.4	3933.8	3888.7	3883.1	3877.5
5°	4705.9	4598.8	4367.8	4102.9	3905.6	3691.5	3544.9	3437.9	3336.4	3240.6	3297.0
7.5°	4858.1	4689.0	4311.4	3967.6	3539.3	3263.2	3003.9	2851.7	2761.6	2677.0	2665.8
10°	5094.8	4880.6	4272.0	3652.0	3161.7	2755.9	2491.0	2271.2	2147.3	2000.7	2057.1
12.5°	5416.0	5032.8	4125.4	3364.6	2733.4	2305.1	1927.5	1572.4	1375.1	1223.0	1228.6
15°	5737.3	5235.7	3990.2	3015.2	2344.5	1780.9	1228.6	986.3	929.9	896.1	907.4
17.5°	6052.9	5399.1	3781.7	2660.1	1899.3	1132.8	896.1	845.4	817.2	783.4	783.4
20°	6436.1	5506.2	3522.4	2333.2	1307.5	839.7	766.5	732.7	687.6	642.5	648.1
22.5°	6808.1	5596.4	3223.7	1916.2	879.2	727.0	642.5	597.4	557.9	512.9	512.9
25°	7180.1	5624.6	2834.8	1375.1	710.1	580.5	501.6	439.6	400.1	360.7	366.3
27.5°	7433.7	5449.9	2468.5	879.2	569.2	439.6	349.4	298.7	264.9	225.4	225.4
30°	7580.2	5128.6	2074.0	619.9	428.3	298.7	208.5	157.8	124.0	95.8	90.2
32.5°	7726.7	4869.4	1628.8	473.4	281.8	157.8	78.9	28.2	0.0	0.0	0.0
35°	8019.8	4576.3	1093.4	264.9	95.8	5.6	0.0	0.0	0.0	0.0	0.0
37.5°	8205.8	4170.5	501.6	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8673.6	3967.6	124.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9434.4	3826.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10268.5	3770.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11378.8	3922.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12551.0	4334.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13836.0	4722.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14957.5	5190.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	17020.2	6295.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	20723.0	8465.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24893.5	10076.9	62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	26420.8	10037.4	107.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	26150.3	9485.1	107.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	24747.0	8425.6	95.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21252.8	6960.3	95.8	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16203.0	5421.7	90.2	22.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	9778.2	2885.6	73.3	28.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3894.4	1014.5	56.4	22.5	11.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	1053.9	304.3	33.8	22.5	16.9	5.6	0.0	0.0	0.0	0.0	0.0
82.5°	276.2	112.7	28.2	22.5	11.3	5.6	0.0	0.0	0.0	0.0	0.0
85°	107.1	45.1	22.5	16.9	16.9	11.3	5.6	0.0	0.0	0.0	0.0
87.5°	33.8	16.9	16.9	11.3	11.3	5.6	5.6	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)