

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: P481927

Luminaire Tested: **IFLD-L-SA7C-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481927
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

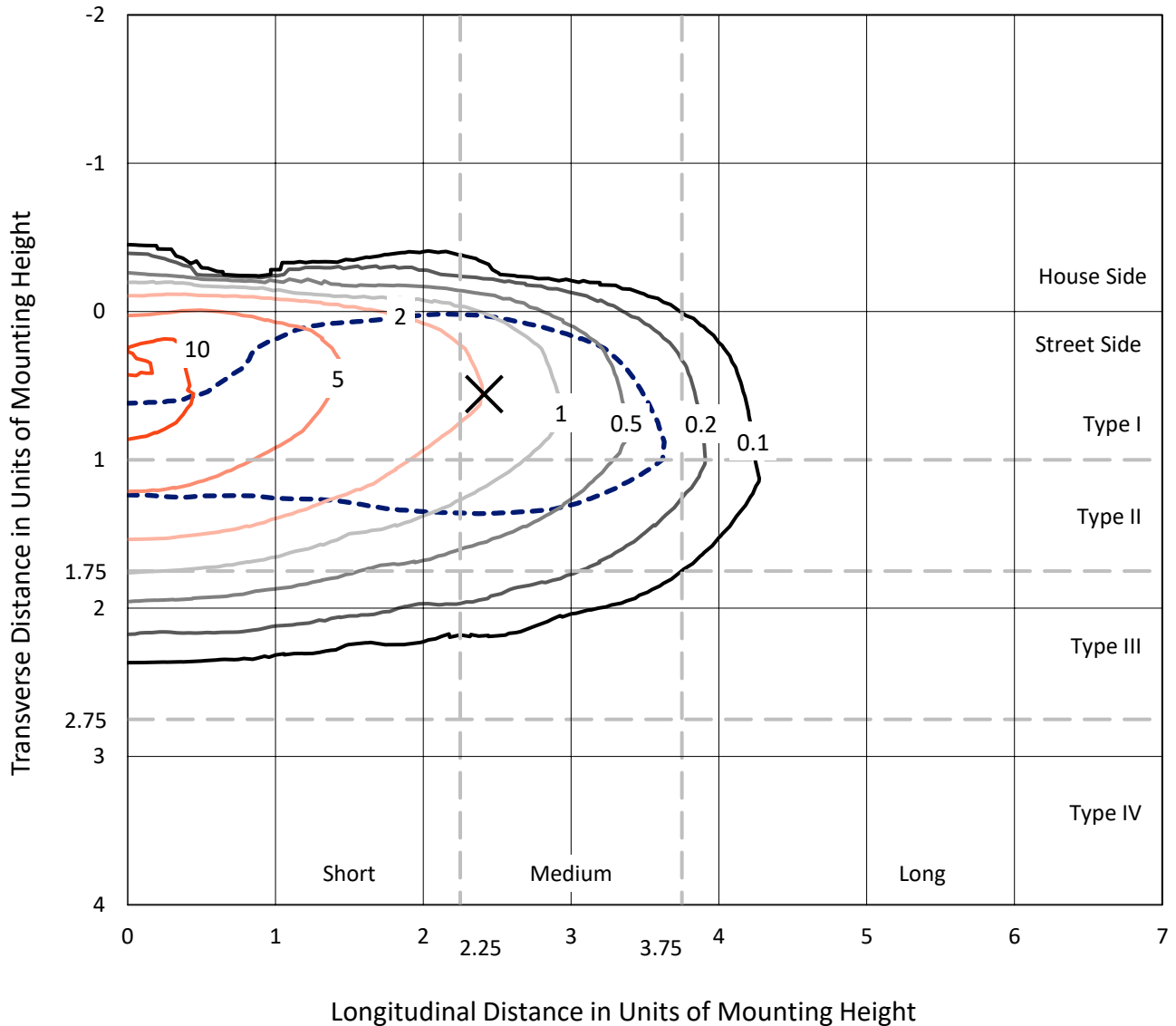
Lumens per Lamp: N/A
Luminaire Lumens: 25672.9 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 369
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

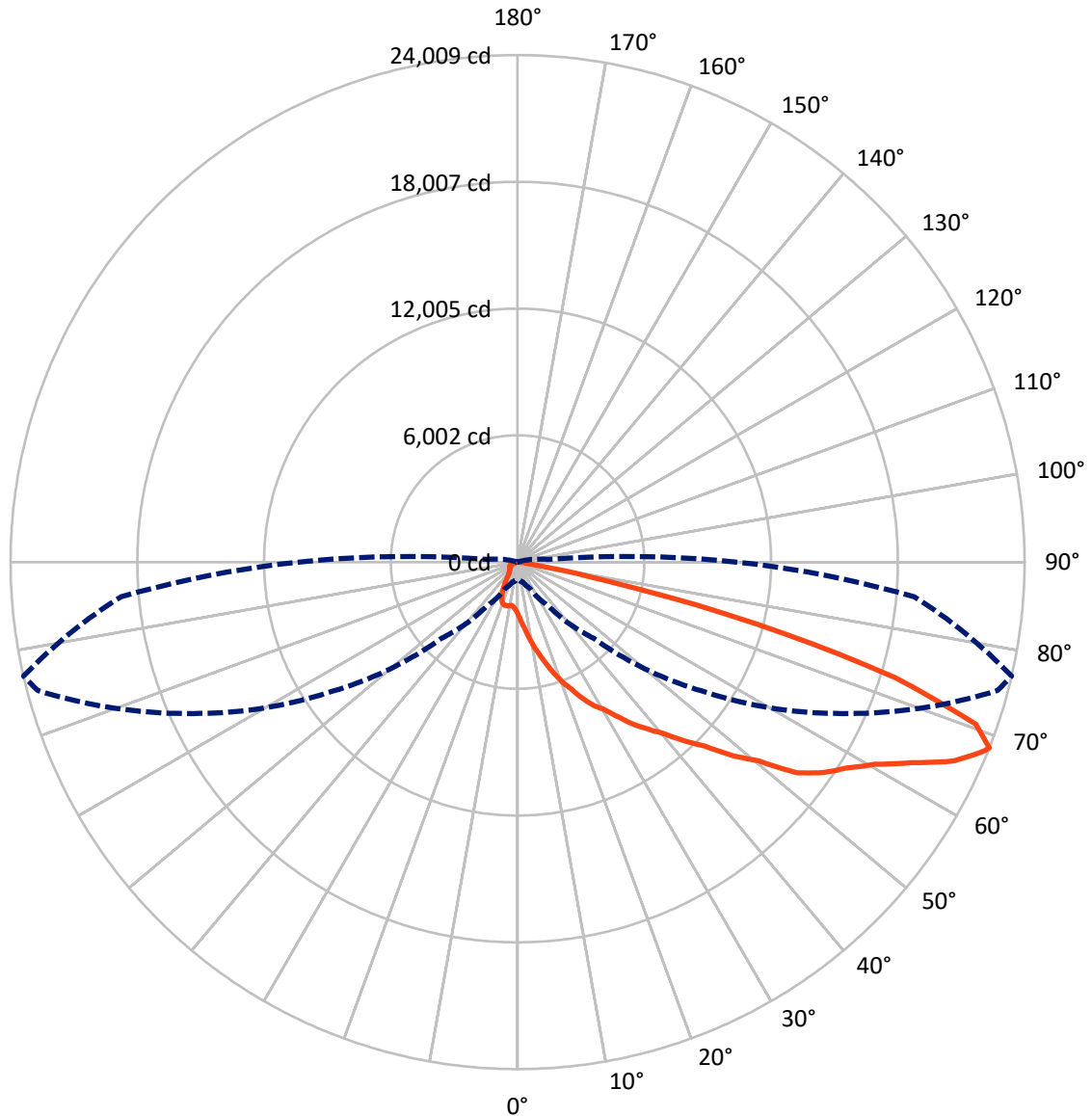
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	1164.2	0.0	1164.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	24508.7	0.0	24508.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	25672.9	0.0	25672.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	1.1
10°-20°	1059.2	4.1
20°-30°	2052.7	8.0
30°-40°	3578.5	13.9
40°-50°	5241.1	20.4
50°-60°	6157.5	24.0
60°-70°	5199.4	20.3
70°-80°	2015.4	7.9
80°-90°	82.0	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°	25672.9	100.0
0°-180°	25672.9	100.0

Coefficient of Utilization



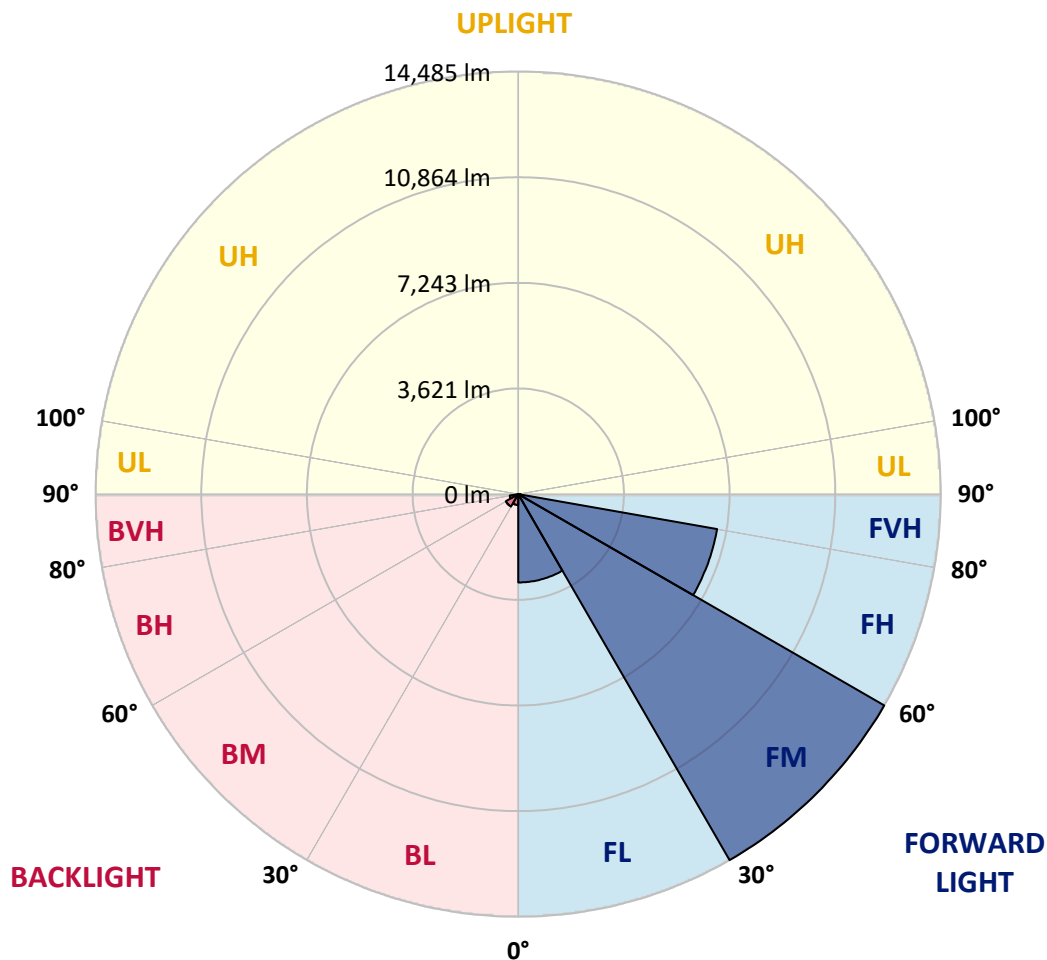
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3027.1	11.8			
FM (30°-60°)	14485.1	56.4			
FH (60°-80°)	6920.9	27.0			G3/7500
FVH (80°-90°)	75.6	0.3			G1/100
BL (0°-30°)	372.0	1.4	B1/500		
BM (30°-60°)	492.0	1.9	B1/1000		
BH (60°-80°)	294.0	1.1	B1/500		G1/500
BVH (80°-90°)	6.3	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°	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2
2.5°	3735.1	3664.3	3590.1	3568.8	3430.9	3275.3	3130.3	2988.8	2751.8	2755.3	2592.6
5°	4813.9	4725.4	4665.3	4651.2	4435.4	4166.6	3947.3	3547.6	3155.0	3066.6	2769.5
7.5°	5701.7	5673.4	5584.9	5510.7	5351.5	5022.5	4764.3	4191.4	3593.6	3494.6	2985.2
10°	6239.3	6281.7	6320.6	6225.1	6101.3	5864.4	5510.7	4891.7	4092.3	3968.5	3264.7
12.5°	6812.3	6741.5	6766.3	6844.1	6681.4	6628.4	6189.8	5613.2	4675.9	4438.9	3618.4
15°	6960.8	6989.1	7049.3	7275.6	7385.3	7233.2	6854.7	6196.8	5280.8	4951.8	3947.3
17.5°	7059.9	7045.7	7120.0	7459.5	7625.8	7770.8	7533.8	6847.6	5807.8	5514.2	4357.6
20°	7183.7	7105.8	7268.5	7484.3	7869.8	8174.0	8163.4	7502.0	6359.5	6048.3	4764.3
22.5°	7643.5	7583.3	7714.2	7735.4	8004.2	8428.7	8531.3	8036.1	6925.5	6543.5	5202.9
25°	8492.4	8602.0	8446.4	8312.0	8393.3	8672.7	8747.0	8510.0	7494.9	7144.8	5641.5
27.5°	9733.8	9719.7	9412.0	9238.7	9044.1	9008.8	9061.8	8952.2	7944.1	7693.0	6002.3
30°	11067.3	10950.6	10667.6	10250.2	9822.3	9557.0	9482.7	9369.5	8471.1	8106.8	6359.5
32.5°	12128.4	12192.1	11877.3	11332.6	10621.6	10264.4	9907.2	9783.4	9051.2	8729.3	6769.8
35°	13104.6	13019.7	12768.6	12308.8	11672.1	11095.6	10536.7	10271.5	9748.0	9429.7	7222.6
37.5°	13826.2	13932.3	13454.8	13016.2	12383.1	11905.6	11357.3	10777.3	10466.0	10041.6	7774.3
40°	14508.8	14342.6	14020.7	13617.5	13030.3	12666.0	12305.2	11399.8	11230.0	10681.8	8396.9
42.5°	14388.5	14399.2	14222.3	13896.9	13472.5	13263.8	13140.0	12156.7	11923.2	11573.1	9005.2
45°	13896.9	13939.3	13999.5	13840.3	13875.7	13667.0	13999.5	13026.8	12796.9	12425.5	9705.5
47.5°	13355.7	13426.5	13412.3	13702.4	14031.3	14102.0	14933.2	13992.4	13893.4	13688.2	10674.7
50°	12457.3	12485.6	12758.0	13285.0	13734.2	14473.4	15633.6	15046.4	15198.5	14795.3	11827.7
52.5°	10922.3	11024.8	11725.2	12478.6	13384.0	14660.9	16107.5	16613.3	16998.9	16585.0	12934.8
55°	8980.5	9121.9	9811.7	11222.9	12549.3	14377.9	16539.0	17441.0	18222.7	17596.6	13606.9
57.5°	7226.1	7240.3	7859.2	9316.5	11364.4	13822.6	16758.3	17844.2	18894.7	18392.4	14427.4
60°	5507.1	5450.5	6005.8	7268.5	9369.5	12457.3	16210.1	18049.3	19733.0	19442.9	15414.3
62.5°	3544.1	3455.7	4060.5	5291.4	7318.1	10183.0	15113.6	18052.9	21041.7	20932.0	17066.1
65°	1754.4	1694.2	2214.2	3243.4	5065.0	7788.5	13550.3	17985.7	22640.4	22711.1	18675.4
67.5°	926.7	947.9	1114.2	1644.7	2921.6	5503.6	11194.6	17196.9	23457.4	23853.6	19064.5
68°	852.4	859.5	990.4	1368.8	2536.0	5103.9	10635.8	16967.0	23521.1	24009.2	18848.7
70°	693.3	703.9	749.8	859.5	1372.4	3321.2	8205.9	15014.6	22562.6	23008.2	17062.5
72.5°	551.8	583.6	611.9	657.9	806.4	1743.7	5103.9	11700.4	18640.0	18689.5	13281.5
75°	420.9	445.7	502.3	541.2	629.6	958.5	2429.9	7134.1	12231.0	11629.7	7823.9
77.5°	325.4	346.6	371.4	424.4	527.0	647.3	742.8	3027.7	5195.9	4276.2	2210.6
80°	194.5	208.7	290.0	332.5	459.8	438.6	293.6	841.8	1054.0	831.2	403.2
82.5°	113.2	123.8	166.2	254.7	321.9	237.0	173.3	261.7	258.2	226.4	134.4
85°	3.5	7.1	92.0	152.1	113.2	63.7	106.1	109.6	92.0	84.9	60.1
87.5°	0.0	3.5	24.8	21.2	24.8	14.1	21.2	28.3	35.4	31.8	24.8
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°	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2
2.5°	2483.0	2405.2	2231.9	2101.0	1959.5	1874.6	1789.7	1736.7	1708.4	1690.7	1704.8
5°	2546.6	2383.9	2104.5	1856.9	1694.2	1584.6	1474.9	1418.3	1365.3	1337.0	1354.7
7.5°	2688.1	2444.1	1980.7	1711.9	1520.9	1351.1	1213.2	1103.5	1039.9	983.3	993.9
10°	2861.4	2479.4	1984.3	1627.0	1351.1	1082.3	887.8	749.8	672.0	622.5	619.0
12.5°	3038.3	2617.4	1998.4	1542.1	1142.5	813.5	583.6	481.0	435.1	410.3	410.3
15°	3307.1	2741.2	1963.0	1386.5	866.6	530.6	399.7	364.3	346.6	325.4	328.9
17.5°	3540.5	2939.3	1945.4	1153.1	594.2	382.0	332.5	293.6	275.9	254.7	254.7
20°	3855.3	3063.0	1849.9	891.3	410.3	318.3	268.8	233.4	205.1	187.5	191.0
22.5°	4141.8	3158.5	1680.1	608.4	314.8	251.1	198.1	162.7	137.9	116.7	120.3
25°	4453.1	3254.0	1432.5	374.9	222.8	155.6	106.1	77.8	53.1	38.9	38.9
27.5°	4675.9	3282.3	1110.6	222.8	134.4	70.7	24.8	3.5	0.0	0.0	0.0
30°	4902.3	3293.0	767.5	120.3	53.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5160.5	3289.4	481.0	63.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	5358.6	3229.3	229.9	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5659.2	3140.9	70.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6002.3	2981.7	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6310.0	2819.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6660.2	2617.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7275.6	2532.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8078.5	2465.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8573.7	2267.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8831.9	2062.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9213.9	1963.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9779.8	1970.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10664.1	2069.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11152.2	1970.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10738.4	1577.5	67.2	17.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	10381.1	1450.2	67.2	17.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	8580.8	944.4	63.7	17.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6249.9	523.5	53.1	14.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3636.0	261.7	38.9	14.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	947.9	130.9	31.8	17.7	10.6	3.5	0.0	0.0	0.0	0.0	0.0
80°	187.5	84.9	28.3	21.2	14.1	7.1	0.0	0.0	0.0	0.0	0.0
82.5°	88.4	60.1	28.3	21.2	17.7	10.6	3.5	0.0	0.0	0.0	0.0
85°	46.0	28.3	28.3	21.2	21.2	14.1	7.1	0.0	0.0	0.0	0.0
87.5°	21.2	10.6	10.6	10.6	10.6	7.1	3.5	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)