

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: P482081

Luminaire Tested: **IFLD-L-SA7A-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482081
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

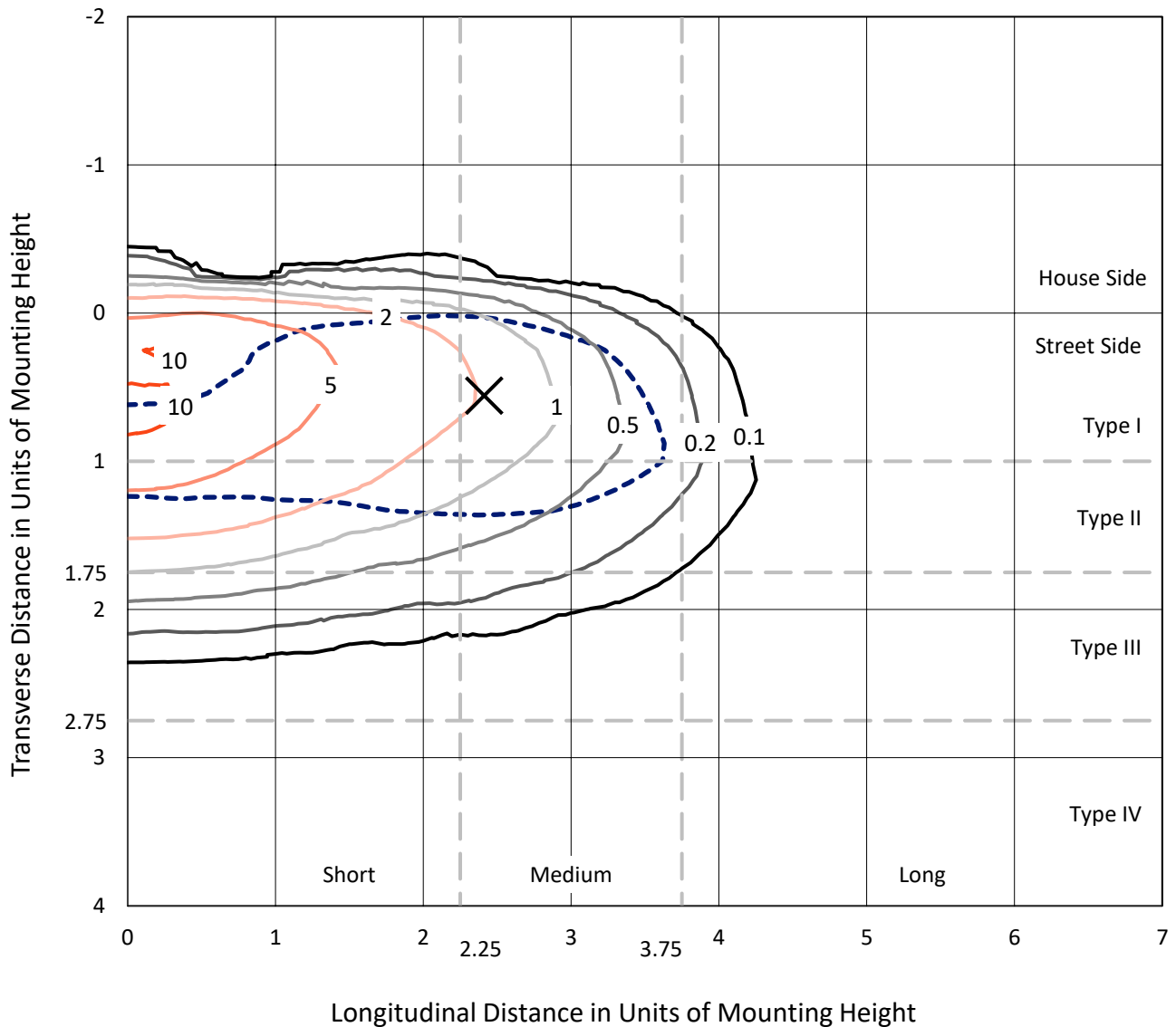
Lumens per Lamp: N/A
Luminaire Lumens: 24608.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6
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

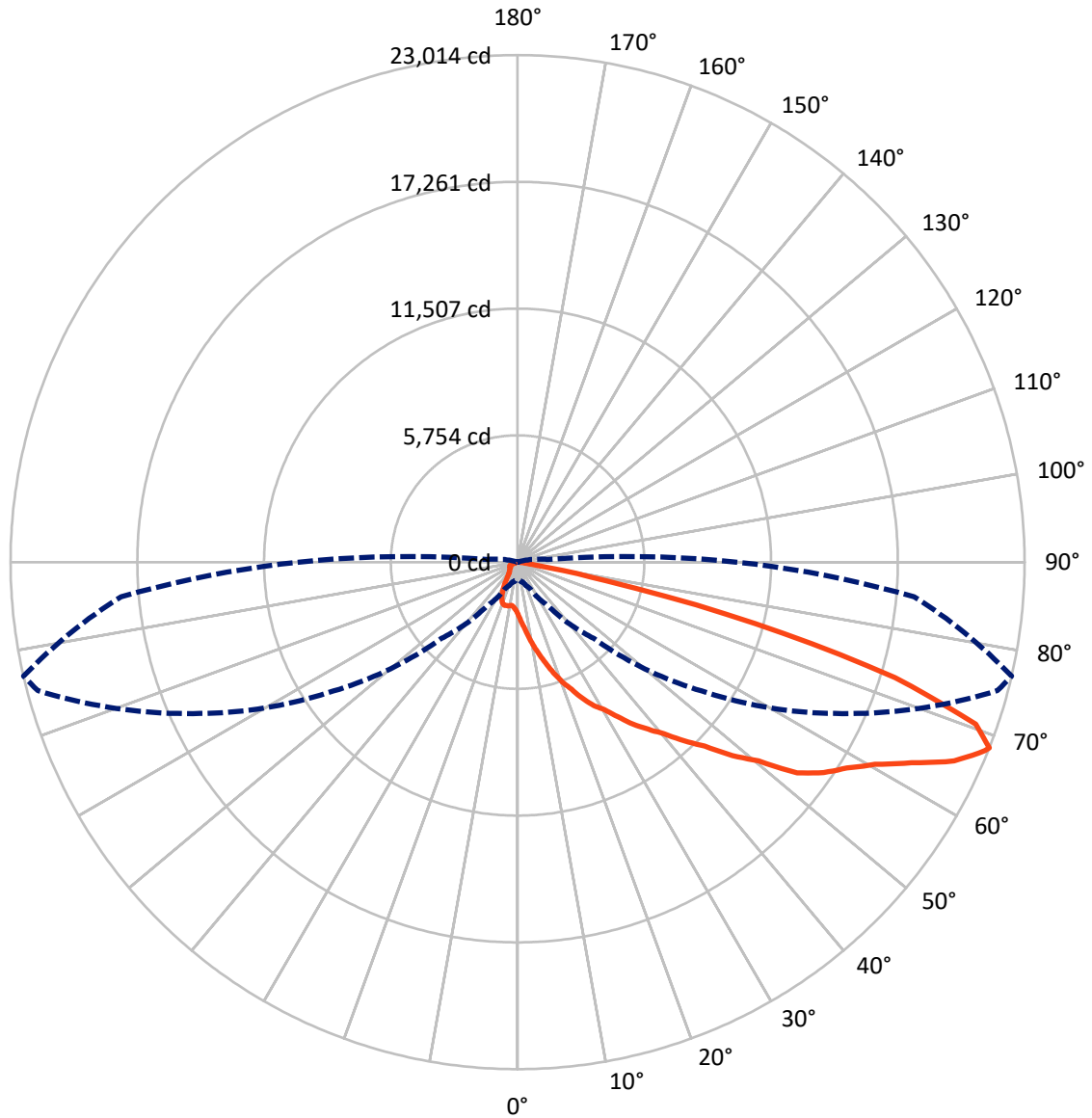
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	1116.0	0.0	1116.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	23492.7	0.0	23492.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	24608.7	0.0	24608.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.1
10°-20°	1015.3	4.1
20°-30°	1967.6	8.0
30°-40°	3430.2	13.9
40°-50°	5023.8	20.4
50°-60°	5902.2	24.0
60°-70°	4983.9	20.3
70°-80°	1931.9	7.9
80°-90°	78.6	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°	24608.7	100.0
0°-180°	24608.7	100.0

Coefficient of Utilization



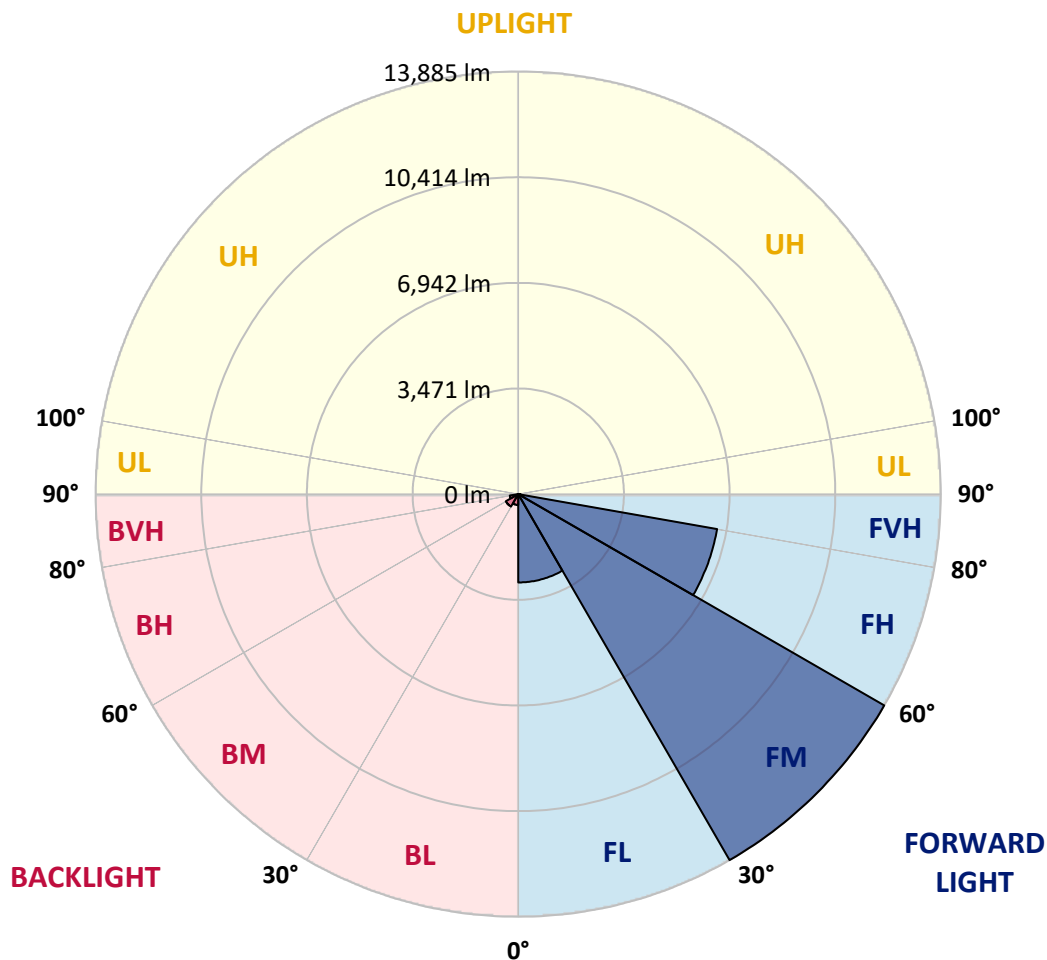
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2901.6	11.8			
FM (30°-60°)	13884.7	56.4			
FH (60°-80°)	6634.0	27.0			G3/7500
FVH (80°-90°)	72.5	0.3			G1/100
BL (0°-30°)	356.6	1.4	B1/500		
BM (30°-60°)	471.6	1.9	B1/1000		
BH (60°-80°)	281.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	3580.3	3512.4	3441.2	3420.9	3288.7	3139.5	3000.5	2864.9	2637.7	2641.1	2485.2
5°	4614.3	4529.6	4471.9	4458.4	4251.5	3993.9	3783.7	3400.6	3024.2	2939.5	2654.7
7.5°	5465.3	5438.2	5353.4	5282.2	5129.7	4814.4	4566.9	4017.6	3444.6	3349.7	2861.5
10°	5980.6	6021.3	6058.6	5967.1	5848.4	5621.3	5282.2	4688.9	3922.7	3804.0	3129.3
12.5°	6529.9	6462.1	6485.8	6560.4	6404.4	6353.6	5933.2	5380.5	4482.1	4254.9	3468.4
15°	6672.3	6699.4	6757.0	6974.0	7079.1	6933.3	6570.6	5940.0	5061.9	4746.5	3783.7
17.5°	6767.2	6753.7	6824.9	7150.3	7309.7	7448.7	7221.5	6563.8	5567.0	5285.6	4177.0
20°	6885.9	6811.3	6967.3	7174.1	7543.6	7835.2	7825.0	7191.0	6095.9	5797.6	4566.9
22.5°	7326.6	7269.0	7394.4	7414.8	7672.5	8079.3	8177.6	7703.0	6638.4	6272.2	4987.3
25°	8140.3	8245.4	8096.3	7967.4	8045.4	8313.2	8384.4	8157.3	7184.2	6848.6	5407.7
27.5°	9330.4	9316.8	9021.8	8855.7	8669.2	8635.3	8686.2	8581.1	7614.8	7374.1	5753.5
30°	10608.5	10496.6	10225.4	9825.3	9415.1	9160.8	9089.6	8981.1	8120.0	7770.8	6095.9
32.5°	11625.6	11686.7	11384.9	10862.8	10181.3	9838.9	9496.5	9377.8	8676.0	8367.5	6489.2
35°	12561.4	12480.0	12239.3	11798.6	11188.3	10635.7	10100.0	9845.7	9343.9	9038.8	6923.2
37.5°	13253.0	13354.7	12897.0	12476.6	11869.8	11412.1	10886.5	10330.5	10032.2	9625.3	7452.1
40°	13907.4	13748.0	13439.5	13053.0	12490.2	12141.0	11795.2	10927.2	10764.5	10239.0	8048.8
42.5°	13792.1	13802.3	13632.8	13320.8	12914.0	12714.0	12595.3	11652.8	11429.0	11093.4	8631.9
45°	13320.8	13361.5	13419.2	13266.6	13300.5	13100.5	13419.2	12486.8	12266.4	11910.4	9303.2
47.5°	12802.1	12869.9	12856.4	13134.4	13449.7	13517.5	14314.2	13412.4	13317.5	13120.8	10232.2
50°	11941.0	11968.1	12229.1	12734.3	13164.9	13873.5	14985.5	14422.7	14568.5	14182.0	11337.5
52.5°	10469.5	10567.8	11239.1	11961.3	12829.2	14053.2	15439.8	15924.7	16294.2	15897.5	12398.7
55°	8608.2	8743.8	9404.9	10757.7	12029.1	13781.9	15853.5	16718.0	17467.3	16867.2	13042.8
57.5°	6926.6	6940.1	7533.4	8930.3	10893.3	13249.6	16063.7	17104.5	18111.5	17630.0	13829.4
60°	5278.8	5224.6	5756.9	6967.3	8981.1	11941.0	15538.2	17301.2	18915.0	18637.0	14775.3
62.5°	3397.2	3312.4	3892.2	5072.0	7014.7	9760.9	14487.1	17304.5	20169.4	20064.3	16358.6
65°	1681.6	1624.0	2122.4	3109.0	4855.0	7465.6	12988.6	17240.1	21701.9	21769.7	17901.3
67.5°	888.3	908.6	1068.0	1576.5	2800.5	5275.4	10730.6	16484.1	22485.1	22864.8	18274.2
68°	817.1	823.9	949.3	1312.1	2430.9	4892.3	10194.9	16263.7	22546.1	23014.0	18067.4
70°	664.5	674.7	718.8	823.9	1315.5	3183.6	7865.7	14392.2	21627.3	22054.5	16355.2
72.5°	528.9	559.4	586.5	630.6	773.0	1671.5	4892.3	11215.4	17867.4	17914.8	12730.9
75°	403.5	427.2	481.4	518.7	603.5	918.8	2329.2	6838.4	11724.0	11147.6	7499.5
77.5°	311.9	332.3	356.0	406.8	505.2	620.4	712.0	2902.2	4980.5	4099.0	2119.0
80°	186.5	200.0	278.0	318.7	440.8	420.4	281.4	806.9	1010.3	796.7	386.5
82.5°	108.5	118.7	159.3	244.1	308.5	227.2	166.1	250.9	247.5	217.0	128.8
85°	3.4	6.8	88.2	145.8	108.5	61.0	101.7	105.1	88.2	81.4	57.6
87.5°	0.0	3.4	23.7	20.3	23.7	13.6	20.3	27.1	33.9	30.5	23.7
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°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2380.1	2305.5	2139.3	2013.9	1878.3	1796.9	1715.5	1664.7	1637.6	1620.6	1634.2
5°	2441.1	2285.1	2017.3	1780.0	1624.0	1518.9	1413.8	1359.5	1308.7	1281.6	1298.5
7.5°	2576.7	2342.8	1898.6	1640.9	1457.9	1295.1	1162.9	1057.8	996.8	942.5	952.7
10°	2742.8	2376.7	1902.0	1559.6	1295.1	1037.5	851.0	718.8	644.2	596.7	593.3
12.5°	2912.3	2508.9	1915.6	1478.2	1095.1	779.8	559.4	461.1	417.0	393.3	393.3
15°	3170.0	2627.6	1881.7	1329.0	830.6	508.6	383.1	349.2	332.3	311.9	315.3
17.5°	3393.8	2817.4	1864.7	1105.3	569.6	366.2	318.7	281.4	264.5	244.1	244.1
20°	3695.5	2936.1	1773.2	854.4	393.3	305.1	257.7	223.8	196.6	179.7	183.1
22.5°	3970.1	3027.6	1610.4	583.1	301.7	240.7	189.9	156.0	132.2	111.9	115.3
25°	4268.5	3119.2	1373.1	359.4	213.6	149.2	101.7	74.6	50.9	37.3	37.3
27.5°	4482.1	3146.3	1064.6	213.6	128.8	67.8	23.7	3.4	0.0	0.0	0.0
30°	4699.1	3156.5	735.7	115.3	50.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4946.6	3153.1	461.1	61.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	5136.4	3095.4	220.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5424.6	3010.7	67.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5753.5	2858.1	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6048.5	2702.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6384.1	2508.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6974.0	2427.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7743.7	2363.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8218.3	2173.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8465.8	1976.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8832.0	1881.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9374.4	1888.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10222.0	1983.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10689.9	1888.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10293.2	1512.1	64.4	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	9950.8	1390.1	64.4	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	8225.1	905.2	61.0	17.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5990.8	501.8	50.9	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	3485.3	250.9	37.3	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	908.6	125.4	30.5	17.0	10.2	3.4	0.0	0.0	0.0	0.0	0.0
80°	179.7	81.4	27.1	20.3	13.6	6.8	0.0	0.0	0.0	0.0	0.0
82.5°	84.8	57.6	27.1	20.3	17.0	10.2	3.4	0.0	0.0	0.0	0.0
85°	44.1	27.1	27.1	20.3	20.3	13.6	6.8	0.0	0.0	0.0	0.0
87.5°	20.3	10.2	10.2	10.2	10.2	6.8	3.4	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)