

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: P481925

Luminaire Tested: **IFLD-L-SA7A-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481925
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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

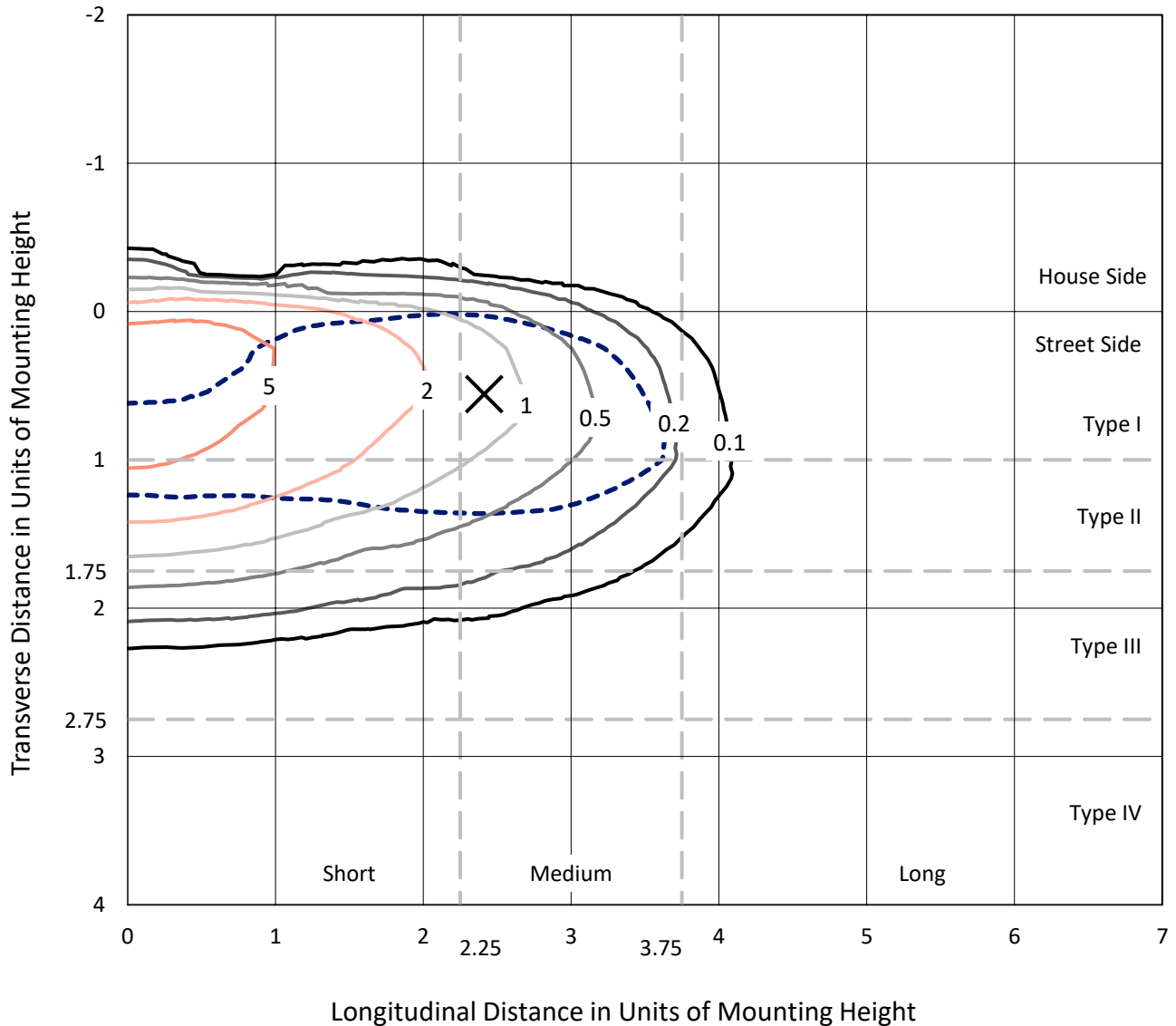
Lumens per Lamp: N/A
Luminaire Lumens: 18126.8 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

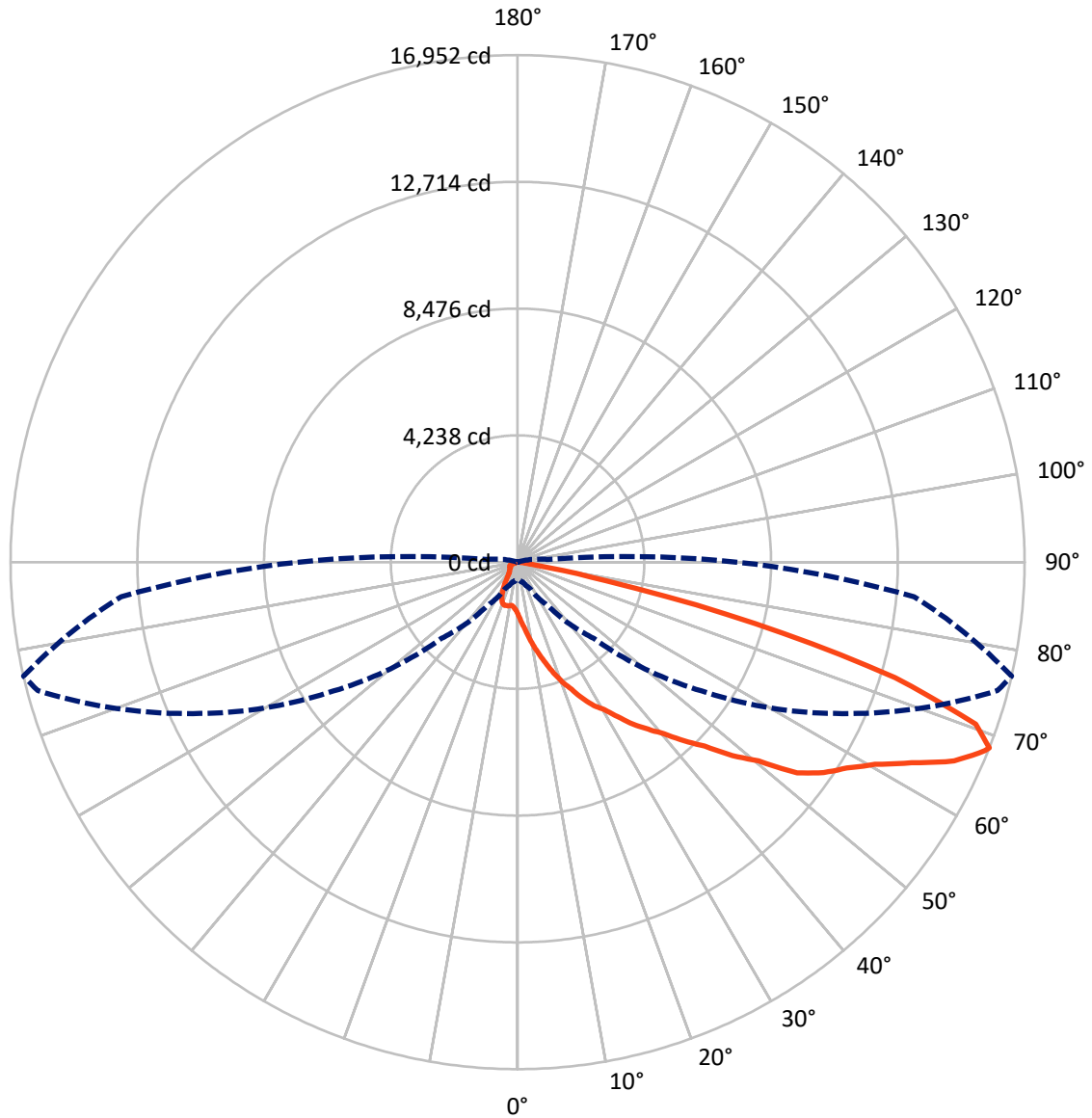
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	822.0	0.0	822.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17304.8	0.0	17304.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	18126.8	0.0	18126.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	1.1
10°-20°	747.8	4.1
20°-30°	1449.3	8.0
30°-40°	2526.7	13.9
40°-50°	3700.6	20.4
50°-60°	4347.6	24.0
60°-70°	3671.1	20.3
70°-80°	1423.0	7.9
80°-90°	57.9	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°	18126.8	100.0
0°-180°	18126.8	100.0

Coefficient of Utilization



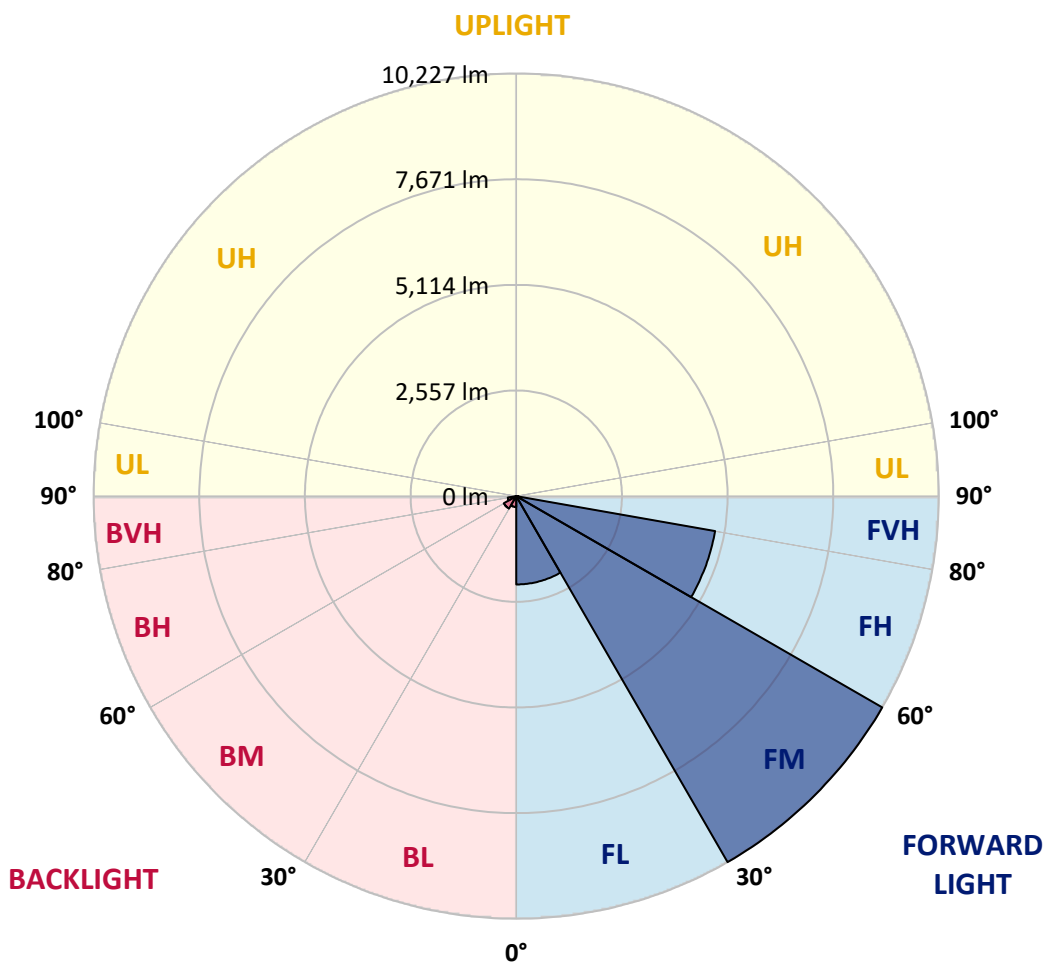
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.3	11.8			
FM (30°-60°)	10227.5	56.4			
FH (60°-80°)	4886.6	27.0			G2/5000
FVH (80°-90°)	53.4	0.3			G1/100
BL (0°-30°)	262.6	1.4	B1/500		
BM (30°-60°)	347.4	1.9	B1/1000		
BH (60°-80°)	207.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7
2.5°	2637.2	2587.3	2534.8	2519.8	2422.4	2312.6	2210.2	2110.3	1942.9	1945.4	1830.6
5°	3398.9	3336.5	3294.0	3284.0	3131.7	2941.9	2787.1	2504.9	2227.6	2165.2	1955.4
7.5°	4025.7	4005.8	3943.3	3890.9	3778.5	3546.3	3363.9	2959.4	2537.3	2467.4	2107.8
10°	4405.3	4435.3	4462.8	4395.4	4307.9	4140.6	3890.9	3453.9	2889.4	2802.0	2305.1
12.5°	4809.9	4760.0	4777.5	4832.4	4717.5	4680.1	4370.4	3963.3	3301.5	3134.2	2554.8
15°	4914.8	4934.8	4977.2	5137.1	5214.5	5107.1	4839.9	4375.4	3728.6	3496.3	2787.1
17.5°	4984.7	4974.7	5027.2	5266.9	5384.3	5486.7	5319.4	4834.9	4100.7	3893.4	3076.7
20°	5072.1	5017.2	5132.1	5284.4	5556.6	5771.4	5763.9	5296.9	4490.3	4270.5	3363.9
22.5°	5396.8	5354.3	5446.7	5461.7	5651.5	5951.2	6023.6	5674.0	4889.8	4620.1	3673.6
25°	5996.2	6073.6	5963.7	5868.8	5926.2	6123.5	6176.0	6008.7	5291.9	5044.7	3983.3
27.5°	6872.7	6862.7	6645.5	6523.1	6385.8	6360.8	6398.2	6320.8	5609.1	5431.8	4238.0
30°	7814.2	7731.8	7532.0	7237.4	6935.2	6747.9	6695.4	6615.5	5981.2	5724.0	4490.3
32.5°	8563.5	8608.4	8386.1	8001.5	7499.6	7247.3	6995.1	6907.7	6390.7	6163.5	4779.9
35°	9252.7	9192.8	9015.5	8690.8	8241.3	7834.2	7439.6	7252.3	6882.7	6658.0	5099.6
37.5°	9762.2	9837.1	9500.0	9190.3	8743.3	8406.1	8019.0	7609.5	7389.7	7090.0	5489.2
40°	10244.2	10126.8	9899.5	9614.8	9200.3	8943.0	8688.3	8049.0	7929.1	7542.0	5928.7
42.5°	10159.3	10166.8	10041.9	9812.1	9512.4	9365.1	9277.7	8583.4	8418.6	8171.4	6358.3
45°	9812.1	9842.1	9884.6	9772.2	9797.1	9649.8	9884.6	9197.8	9035.5	8773.2	6852.8
47.5°	9430.0	9480.0	9470.0	9674.8	9907.0	9957.0	10543.9	9879.6	9809.6	9664.8	7537.0
50°	8795.7	8815.7	9008.0	9380.1	9697.3	10219.2	11038.3	10623.8	10731.2	10446.5	8351.2
52.5°	7711.9	7784.3	8278.8	8810.7	9450.0	10351.6	11373.0	11730.1	12002.3	11710.1	9132.8
55°	6340.8	6440.7	6927.7	7924.1	8860.6	10151.8	11677.7	12314.5	12866.4	12424.4	9607.3
57.5°	5102.1	5112.1	5549.1	6578.0	8024.0	9759.7	11832.5	12599.2	13340.9	12986.3	10186.7
60°	3888.4	3848.4	4240.5	5132.1	6615.5	8795.7	11445.4	12744.0	13932.8	13728.0	10883.5
62.5°	2502.4	2439.9	2867.0	3736.1	5167.0	7189.9	10671.2	12746.5	14856.8	14779.4	12049.8
65°	1238.7	1196.2	1563.3	2290.1	3576.2	5499.2	9567.4	12699.1	15985.6	16035.6	13186.1
67.5°	654.3	669.3	786.7	1161.3	2062.8	3885.9	7904.1	12142.2	16562.5	16842.2	13460.8
68°	601.9	606.9	699.3	966.5	1790.6	3603.7	7509.6	11979.8	16607.5	16952.1	13308.4
70°	489.5	497.0	529.4	606.9	969.0	2345.0	5793.9	10601.3	15930.7	16245.3	12047.3
72.5°	389.6	412.1	432.0	464.5	569.4	1231.2	3603.7	8261.3	13161.1	13196.1	9377.6
75°	297.2	314.7	354.6	382.1	444.5	676.8	1715.7	5037.2	8635.9	8211.3	5524.2
77.5°	229.8	244.7	262.2	299.7	372.1	457.0	524.4	2137.7	3668.6	3019.3	1560.9
80°	137.4	147.3	204.8	234.8	324.7	309.7	207.3	594.4	744.2	586.9	284.7
82.5°	79.9	87.4	117.4	179.8	227.3	167.3	122.4	184.8	182.3	159.8	94.9
85°	2.5	5.0	64.9	107.4	79.9	45.0	74.9	77.4	64.9	59.9	42.5
87.5°	0.0	2.5	17.5	15.0	17.5	10.0	15.0	20.0	25.0	22.5	17.5
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°	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7
2.5°	1753.1	1698.2	1575.8	1483.4	1383.5	1323.6	1263.7	1226.2	1206.2	1193.7	1203.7
5°	1798.1	1683.2	1485.9	1311.1	1196.2	1118.8	1041.4	1001.4	964.0	944.0	956.5
7.5°	1898.0	1725.7	1398.5	1208.7	1073.9	954.0	856.6	779.2	734.2	694.3	701.8
10°	2020.4	1750.7	1401.0	1148.8	954.0	764.2	626.8	529.4	474.5	439.5	437.0
12.5°	2145.2	1848.0	1411.0	1088.8	806.6	574.4	412.1	339.6	307.2	289.7	289.7
15°	2335.0	1935.5	1386.0	979.0	611.9	374.6	282.2	257.2	244.7	229.8	232.3
17.5°	2499.9	2075.3	1373.5	814.1	419.6	269.7	234.8	207.3	194.8	179.8	179.8
20°	2722.1	2162.7	1306.1	629.3	289.7	224.8	189.8	164.8	144.8	132.4	134.9
22.5°	2924.4	2230.1	1186.2	429.5	222.3	177.3	139.9	114.9	97.4	82.4	84.9
25°	3144.2	2297.6	1011.4	264.7	157.3	109.9	74.9	54.9	37.5	27.5	27.5
27.5°	3301.5	2317.6	784.2	157.3	94.9	49.9	17.5	2.5	0.0	0.0	0.0
30°	3461.3	2325.0	541.9	84.9	37.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3643.6	2322.5	339.6	45.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	3783.5	2280.1	162.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3995.8	2217.7	49.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4238.0	2105.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4455.3	1990.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4702.5	1848.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5137.1	1788.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5704.0	1740.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6053.6	1600.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6235.9	1456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6505.6	1386.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6905.2	1391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7529.5	1461.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7874.2	1391.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7582.0	1113.8	47.4	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	7329.8	1023.9	47.4	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	6058.6	666.8	45.0	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4412.8	369.6	37.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2567.3	184.8	27.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	669.3	92.4	22.5	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	132.4	59.9	20.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.4	42.5	20.0	15.0	12.5	7.5	2.5	0.0	0.0	0.0	0.0
85°	32.5	20.0	20.0	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
87.5°	15.0	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)