

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: P482189

Luminaire Tested: **IFLD-S-SA6B-827-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482189
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

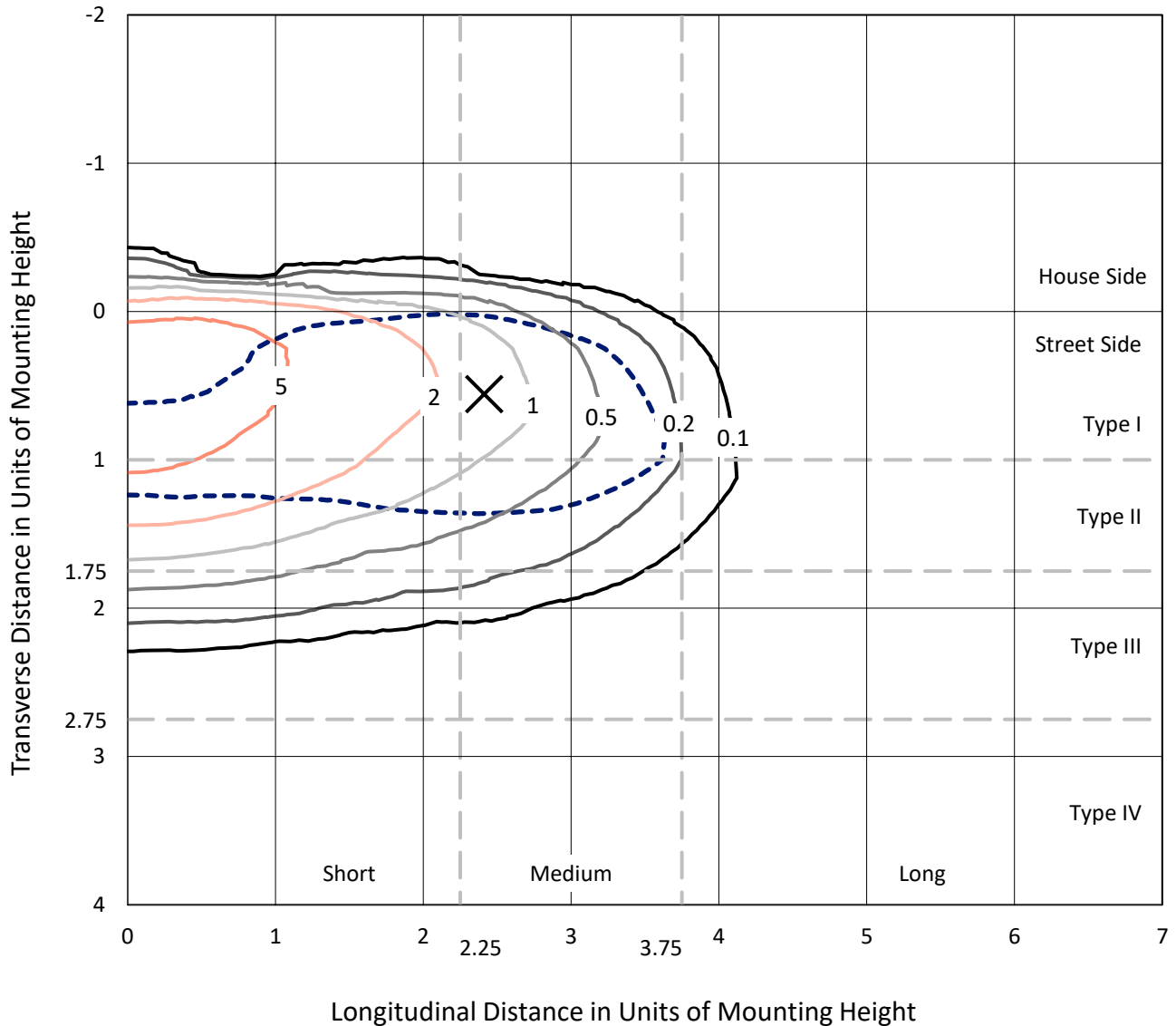
Lumens per Lamp: N/A
Luminaire Lumens: 19291.5 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 244.9
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

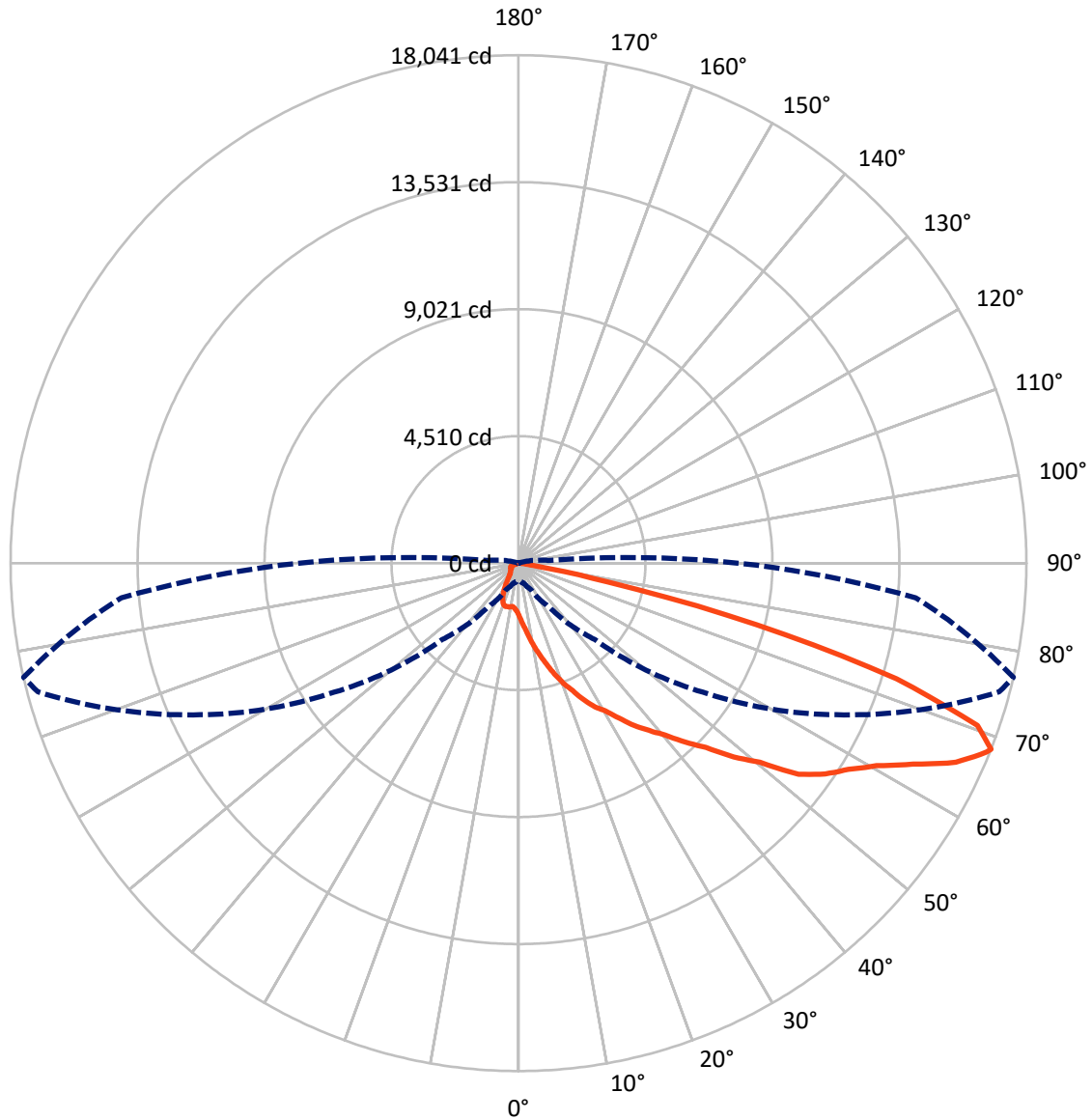
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	874.9	0.0	874.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	18416.6	0.0	18416.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	19291.5	0.0	19291.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.1
10°-20°	795.9	4.1
20°-30°	1542.5	8.0
30°-40°	2689.0	13.9
40°-50°	3938.3	20.4
50°-60°	4626.9	24.0
60°-70°	3907.0	20.3
70°-80°	1514.5	7.9
80°-90°	61.6	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°	19291.5	100.0
0°-180°	19291.5	100.0

Coefficient of Utilization



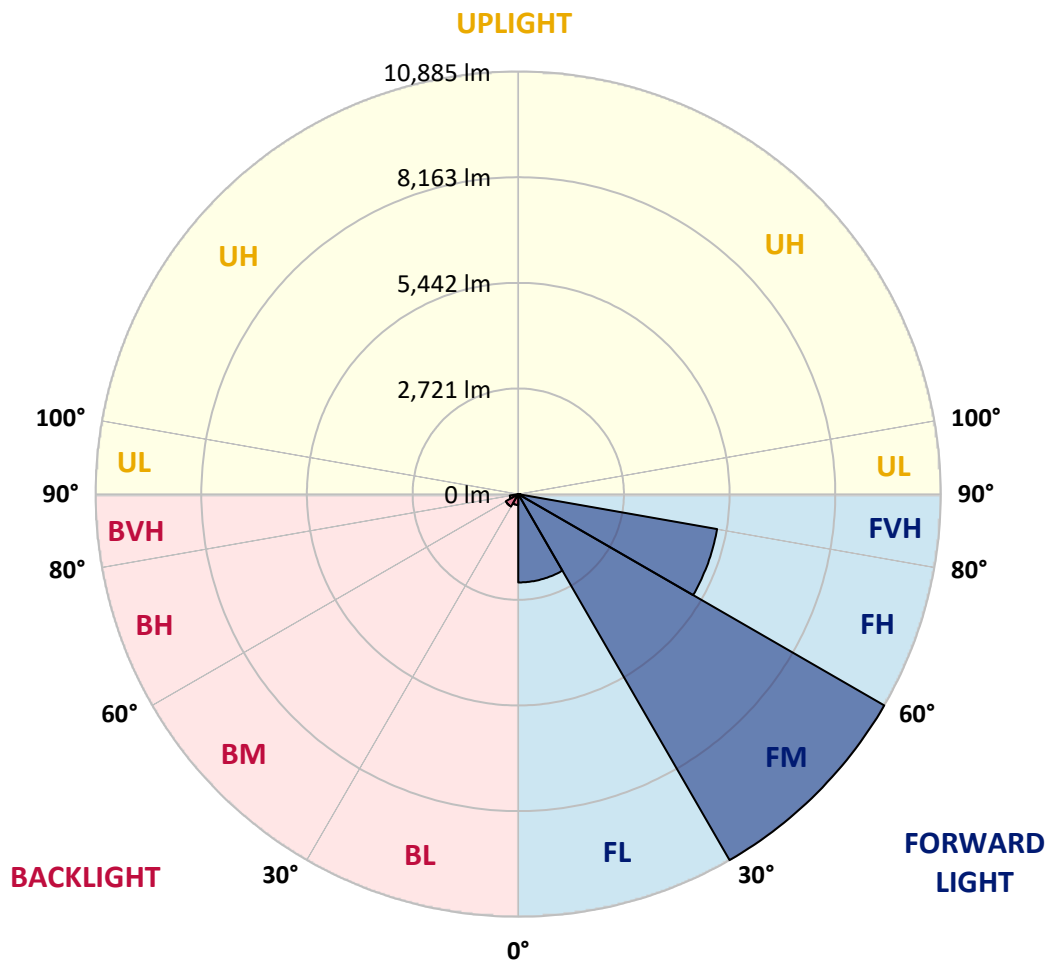
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2274.6	11.8			
FM (30°-60°)	10884.6	56.4			
FH (60°-80°)	5200.6	27.0			G3/7500
FVH (80°-90°)	56.8	0.3			G1/100
BL (0°-30°)	279.5	1.4	B1/500		
BM (30°-60°)	369.7	1.9	B1/1000		
BH (60°-80°)	220.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	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°	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2
2.5°	2806.7	2753.5	2697.7	2681.7	2578.1	2461.1	2352.2	2245.9	2067.8	2070.4	1948.2
5°	3617.3	3550.9	3505.7	3495.0	3332.9	3130.9	2966.1	2665.8	2370.8	2304.3	2081.1
7.5°	4284.4	4263.2	4196.7	4140.9	4021.3	3774.1	3580.1	3149.5	2700.4	2625.9	2243.2
10°	4688.4	4720.3	4749.5	4677.8	4584.8	4406.7	4140.9	3675.8	3075.1	2982.1	2453.2
12.5°	5119.0	5065.8	5084.4	5142.9	5020.6	4980.8	4651.2	4218.0	3513.6	3335.6	2719.0
15°	5230.6	5251.9	5297.0	5467.1	5549.5	5435.3	5150.9	4656.5	3968.1	3721.0	2966.1
17.5°	5305.0	5294.4	5350.2	5605.4	5730.3	5839.2	5661.2	5145.6	4364.2	4143.6	3274.4
20°	5398.0	5339.6	5461.8	5624.0	5913.7	6142.2	6134.3	5637.2	4778.8	4544.9	3580.1
22.5°	5743.6	5698.4	5796.7	5812.7	6014.7	6333.6	6410.7	6038.6	5204.0	4917.0	3909.7
25°	6381.4	6463.8	6346.9	6245.9	6307.0	6517.0	6572.8	6394.7	5631.9	5368.8	4239.2
27.5°	7314.3	7303.7	7072.5	6942.2	6796.1	6769.5	6809.4	6727.0	5969.5	5780.8	4510.3
30°	8316.3	8228.6	8016.0	7702.4	7380.8	7181.4	7125.6	7040.6	6365.5	6091.7	4778.8
32.5°	9113.7	9161.5	8925.0	8515.7	7981.5	7713.0	7444.6	7351.5	6801.4	6559.5	5087.1
35°	9847.2	9783.5	9594.8	9249.2	8770.8	8337.6	7917.7	7718.3	7325.0	7085.8	5427.3
37.5°	10389.4	10469.2	10110.4	9780.8	9305.0	8946.2	8534.3	8098.4	7864.5	7545.6	5841.9
40°	10902.4	10777.5	10535.6	10232.6	9791.4	9517.7	9246.6	8566.2	8438.6	8026.6	6309.7
42.5°	10812.0	10820.0	10687.1	10442.6	10123.7	9966.8	9873.8	9134.9	8959.5	8696.4	6766.8
45°	10442.6	10474.5	10519.7	10400.1	10426.7	10269.8	10519.7	9788.8	9616.0	9336.9	7293.1
47.5°	10036.0	10089.1	10078.5	10296.4	10543.6	10596.8	11221.3	10514.4	10439.9	10285.8	8021.3
50°	9360.9	9382.1	9586.8	9982.8	10320.3	10875.8	11747.6	11306.4	11420.7	11117.7	8887.8
52.5°	8207.4	8284.4	8810.7	9376.8	10057.2	11016.7	12103.7	12483.8	12773.5	12462.5	9719.7
55°	6748.2	6854.5	7372.8	8433.3	9430.0	10804.1	12428.0	13105.7	13693.1	13222.7	10224.7
57.5°	5429.9	5440.6	5905.7	7000.7	8539.6	10386.8	12592.8	13408.7	14198.1	13820.7	10841.3
60°	4138.2	4095.7	4513.0	5461.8	7040.6	9360.9	12180.8	13562.9	14828.0	14610.1	11582.8
62.5°	2663.1	2596.7	3051.2	3976.1	5499.0	7651.9	11356.9	13565.5	15811.4	15729.0	12824.0
65°	1318.3	1273.1	1663.8	2437.2	3806.0	5852.5	10182.1	13515.0	17012.7	17065.9	14033.3
67.5°	696.4	712.3	837.2	1235.9	2195.4	4135.6	8412.0	12922.4	17626.7	17924.4	14325.7
68°	640.5	645.9	744.2	1028.6	1905.7	3835.2	7992.1	12749.6	17674.5	18041.3	14163.6
70°	520.9	528.9	563.5	645.9	1031.2	2495.7	6166.2	11282.5	16954.3	17289.2	12821.4
72.5°	414.6	438.5	459.8	494.4	606.0	1310.3	3835.2	8792.1	14006.7	14044.0	9980.1
75°	316.3	334.9	377.4	406.6	473.1	720.3	1825.9	5360.8	9190.8	8738.9	5879.1
77.5°	244.5	260.5	279.1	318.9	396.0	486.4	558.1	2275.1	3904.3	3213.3	1661.1
80°	146.2	156.8	217.9	249.8	345.5	329.6	220.6	632.6	792.0	624.6	303.0
82.5°	85.1	93.0	124.9	191.4	241.9	178.1	130.2	196.7	194.0	170.1	101.0
85°	2.7	5.3	69.1	114.3	85.1	47.8	79.7	82.4	69.1	63.8	45.2
87.5°	0.0	2.7	18.6	15.9	18.6	10.6	15.9	21.3	26.6	23.9	18.6
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°	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2	1847.2
2.5°	1865.8	1807.3	1677.1	1578.7	1472.4	1408.6	1344.9	1305.0	1283.7	1270.4	1281.1
5°	1913.6	1791.4	1581.4	1395.4	1273.1	1190.7	1108.3	1065.8	1025.9	1004.7	1017.9
7.5°	2019.9	1836.6	1488.4	1286.4	1142.9	1015.3	911.6	829.2	781.4	738.9	746.8
10°	2150.2	1863.1	1491.0	1222.6	1015.3	813.3	667.1	563.5	505.0	467.8	465.1
12.5°	2283.1	1966.8	1501.7	1158.8	858.5	611.3	438.5	361.5	326.9	308.3	308.3
15°	2485.1	2059.8	1475.1	1041.9	651.2	398.7	300.3	273.8	260.5	244.5	247.2
17.5°	2660.5	2208.7	1461.8	866.5	446.5	287.0	249.8	220.6	207.3	191.4	191.4
20°	2897.0	2301.7	1390.0	669.8	308.3	239.2	202.0	175.4	154.2	140.9	143.5
22.5°	3112.3	2373.4	1262.5	457.1	236.5	188.7	148.8	122.3	103.7	87.7	90.4
25°	3346.2	2445.2	1076.4	281.7	167.4	116.9	79.7	58.5	39.9	29.2	29.2
27.5°	3513.6	2466.5	834.6	167.4	101.0	53.2	18.6	2.7	0.0	0.0	0.0
30°	3683.7	2474.4	576.7	90.4	39.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3877.8	2471.8	361.5	47.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	4026.6	2426.6	172.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4252.5	2360.1	53.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4510.3	2240.5	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4741.6	2118.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5004.7	1966.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5467.1	1903.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6070.5	1852.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6442.6	1703.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6636.6	1549.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6923.6	1475.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7348.9	1480.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8013.3	1554.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8380.1	1480.4	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8069.2	1185.4	50.5	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	7800.7	1089.7	50.5	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	6447.9	709.6	47.8	13.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4696.4	393.4	39.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2732.2	196.7	29.2	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	712.3	98.3	23.9	13.3	8.0	2.7	0.0	0.0	0.0	0.0	0.0
80°	140.9	63.8	21.3	15.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	66.4	45.2	21.3	15.9	13.3	8.0	2.7	0.0	0.0	0.0	0.0
85°	34.6	21.3	21.3	15.9	15.9	10.6	5.3	0.0	0.0	0.0	0.0
87.5°	15.9	8.0	8.0	8.0	8.0	5.3	2.7	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)