

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: P482019

Luminaire Tested: **IFLD-S-SA3C-735-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482019
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

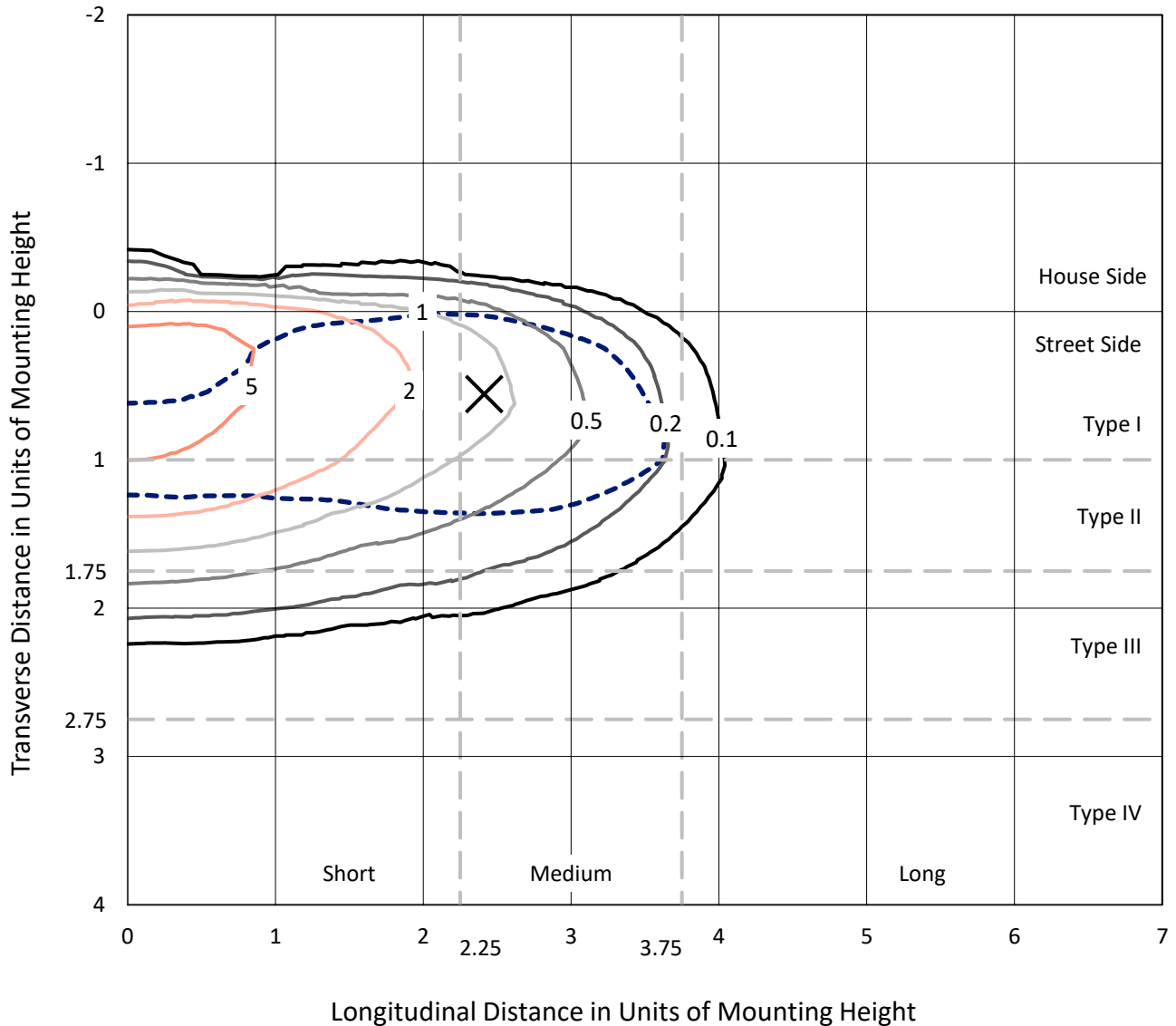
Lumens per Lamp: N/A
Luminaire Lumens: 16425.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

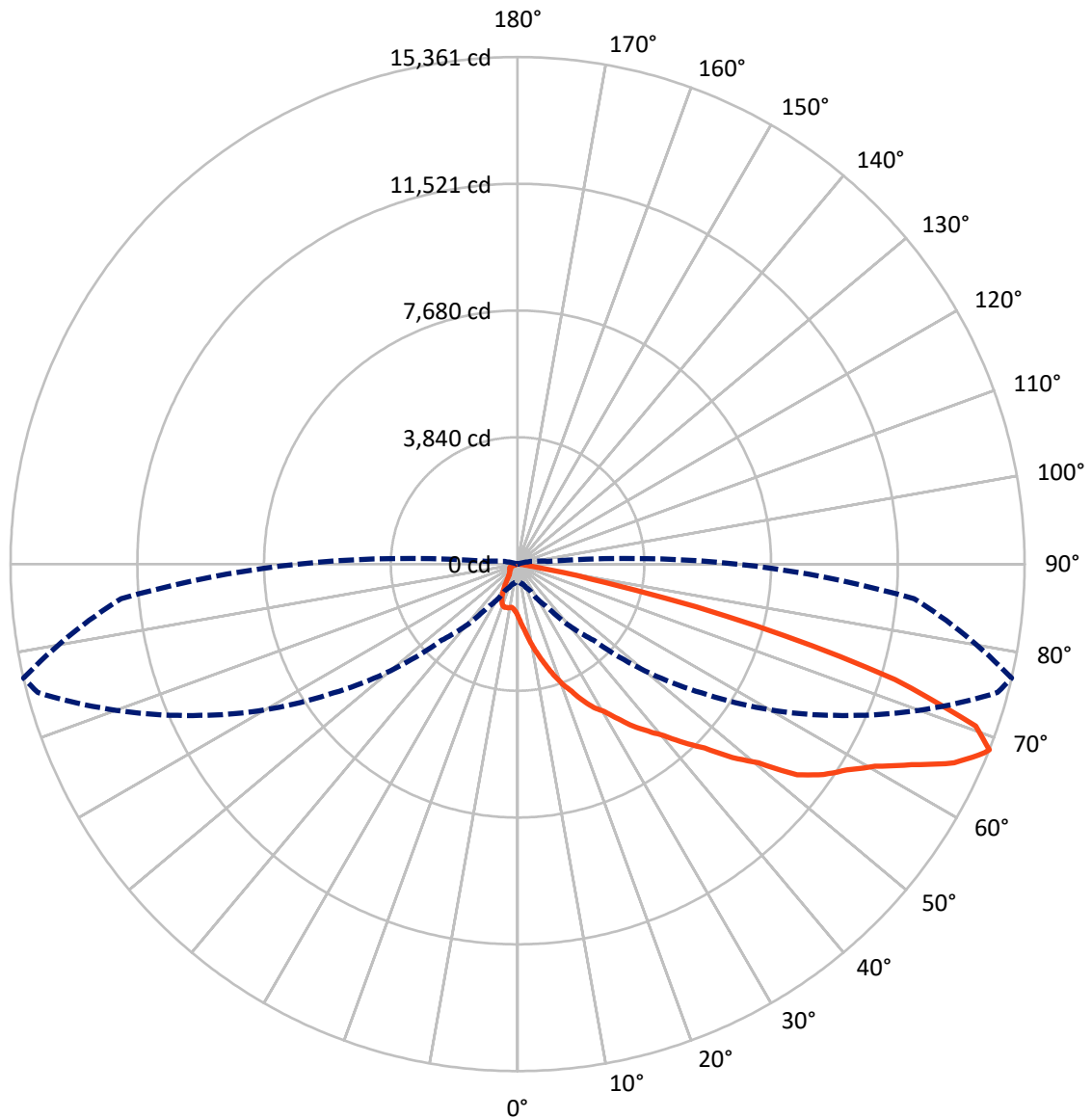
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	744.9	0.0	744.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	15680.4	0.0	15680.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	16425.3	0.0	16425.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	1.1
10°-20°	677.6	4.1
20°-30°	1313.3	8.0
30°-40°	2289.5	13.9
40°-50°	3353.2	20.4
50°-60°	3939.5	24.0
60°-70°	3326.5	20.3
70°-80°	1289.4	7.9
80°-90°	52.4	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°	16425.3	100.0
0°-180°	16425.3	100.0



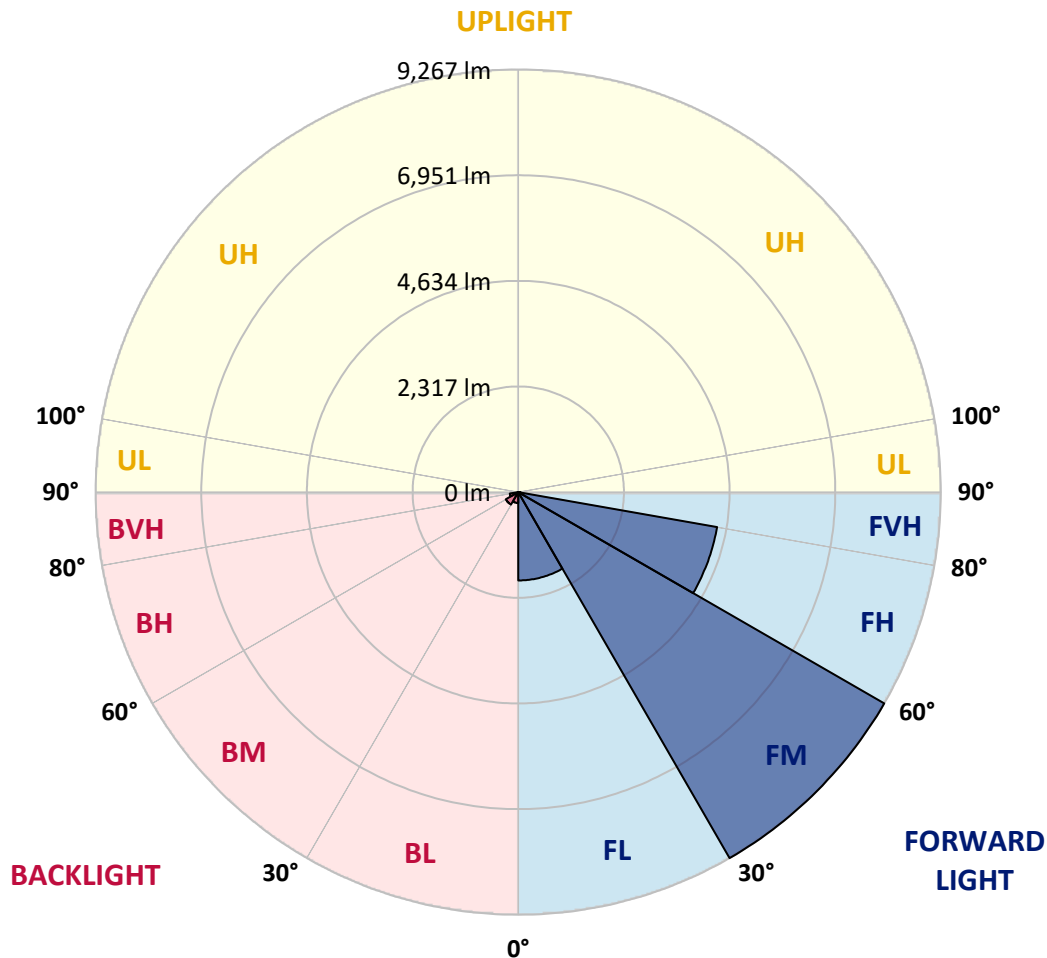
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.7	11.8			
FM (30°-60°)	9267.4	56.4			
FH (60°-80°)	4427.9	27.0			G2/5000
FVH (80°-90°)	48.4	0.3			G1/100
BL (0°-30°)	238.0	1.4	B1/500		
BM (30°-60°)	314.8	1.9	B1/1000		
BH (60°-80°)	188.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	2389.7	2344.4	2296.9	2283.3	2195.1	2095.5	2002.7	1912.2	1760.6	1762.8	1658.7
5°	3079.9	3023.3	2984.8	2975.8	2837.7	2665.7	2525.4	2269.7	2018.5	1962.0	1771.9
7.5°	3647.9	3629.8	3573.2	3525.7	3423.8	3213.4	3048.2	2681.6	2299.1	2235.8	1909.9
10°	3991.8	4019.0	4043.9	3982.8	3903.6	3752.0	3525.7	3129.7	2618.2	2539.0	2088.7
12.5°	4358.4	4313.2	4329.0	4378.8	4274.7	4240.8	3960.2	3591.3	2991.6	2840.0	2315.0
15°	4453.5	4471.6	4510.0	4654.9	4725.0	4627.7	4385.6	3964.7	3378.6	3168.1	2525.4
17.5°	4516.8	4507.8	4555.3	4772.5	4878.9	4971.7	4820.1	4381.1	3715.8	3527.9	2787.9
20°	4596.0	4546.3	4650.3	4788.4	5035.0	5229.7	5222.9	4799.7	4068.8	3869.6	3048.2
22.5°	4890.2	4851.7	4935.5	4949.1	5121.0	5392.6	5458.2	5141.4	4430.8	4186.4	3328.8
25°	5433.3	5503.5	5403.9	5317.9	5370.0	5548.7	5596.3	5444.6	4795.2	4571.1	3609.4
27.5°	6227.6	6218.6	6021.7	5910.8	5786.3	5763.7	5797.7	5727.5	5082.6	4921.9	3840.2
30°	7080.7	7006.1	6825.0	6558.0	6284.2	6114.5	6066.9	5994.5	5419.7	5186.7	4068.8
32.5°	7759.6	7800.4	7599.0	7250.5	6795.6	6567.1	6338.5	6259.3	5790.9	5584.9	4331.3
35°	8384.2	8329.9	8169.2	7875.0	7467.7	7098.9	6741.3	6571.6	6236.7	6033.0	4620.9
37.5°	8845.8	8913.7	8608.2	8327.6	7922.6	7617.1	7266.3	6895.2	6696.0	6424.5	4973.9
40°	9282.6	9176.2	8970.3	8712.3	8336.7	8103.6	7872.8	7293.5	7184.8	6834.1	5372.2
42.5°	9205.7	9212.4	9099.3	8891.1	8619.5	8486.0	8406.8	7777.7	7628.4	7404.3	5761.5
45°	8891.1	8918.3	8956.7	8854.9	8877.5	8744.0	8956.7	8334.4	8187.3	7949.7	6209.5
47.5°	8544.9	8590.1	8581.1	8766.6	8977.1	9022.4	9554.1	8952.2	8888.8	8757.6	6829.6
50°	7970.1	7988.2	8162.4	8499.6	8787.0	9260.0	10002.2	9626.6	9723.9	9465.9	7567.3
52.5°	6988.0	7053.6	7501.7	7983.7	8563.0	9379.9	10305.4	10629.0	10875.7	10610.9	8275.6
55°	5745.6	5836.1	6277.4	7180.3	8028.9	9198.9	10581.5	11158.6	11658.7	11258.1	8705.5
57.5°	4623.2	4632.2	5028.3	5960.6	7270.8	8843.6	10721.8	11416.5	12088.6	11767.3	9230.5
60°	3523.4	3487.2	3842.5	4650.3	5994.5	7970.1	10371.1	11547.8	12625.0	12439.4	9861.9
62.5°	2267.5	2210.9	2597.9	3385.4	4682.0	6515.0	9669.6	11550.1	13462.2	13392.1	10918.7
65°	1122.4	1083.9	1416.6	2075.1	3240.5	4983.0	8669.3	11507.1	14485.1	14530.4	11948.3
67.5°	592.9	606.5	712.8	1052.3	1869.2	3521.1	7162.2	11002.4	15007.8	15261.3	12197.3
68°	545.4	549.9	633.6	875.8	1622.5	3265.4	6804.7	10855.3	15048.6	15360.9	12059.2
70°	443.5	450.3	479.7	549.9	878.0	2124.9	5250.0	9606.2	14435.3	14720.4	10916.4
72.5°	353.0	373.4	391.5	420.9	516.0	1115.6	3265.4	7485.8	11925.7	11957.4	8497.4
75°	269.3	285.1	321.3	346.2	402.8	613.3	1554.6	4564.4	7825.3	7440.6	5005.6
77.5°	208.2	221.8	237.6	271.6	337.2	414.1	475.2	1937.1	3324.3	2735.9	1414.3
80°	124.5	133.5	185.6	212.7	294.2	280.6	187.8	538.6	674.4	531.8	258.0
82.5°	72.4	79.2	106.4	162.9	205.9	151.6	110.9	167.5	165.2	144.8	86.0
85°	2.3	4.5	58.8	97.3	72.4	40.7	67.9	70.2	58.8	54.3	38.5
87.5°	0.0	2.3	15.8	13.6	15.8	9.1	13.6	18.1	22.6	20.4	15.8
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°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	1588.6	1538.8	1427.9	1344.2	1253.7	1199.4	1145.0	1111.1	1093.0	1081.7	1090.7
5°	1629.3	1525.2	1346.5	1188.0	1083.9	1013.8	943.6	907.4	873.5	855.4	866.7
7.5°	1719.8	1563.7	1267.2	1095.3	973.1	864.4	776.2	706.0	665.3	629.1	635.9
10°	1830.7	1586.3	1269.5	1041.0	864.4	692.5	568.0	479.7	430.0	398.3	396.0
12.5°	1943.9	1674.6	1278.6	986.6	730.9	520.5	373.4	307.8	278.3	262.5	262.5
15°	2115.9	1753.8	1255.9	887.1	554.4	339.4	255.7	233.1	221.8	208.2	210.5
17.5°	2265.2	1880.5	1244.6	737.7	380.2	244.4	212.7	187.8	176.5	162.9	162.9
20°	2466.6	1959.7	1183.5	570.3	262.5	203.7	172.0	149.4	131.3	119.9	122.2
22.5°	2649.9	2020.8	1074.9	389.2	201.4	160.7	126.7	104.1	88.3	74.7	76.9
25°	2849.0	2081.9	916.5	239.9	142.6	99.6	67.9	49.8	33.9	24.9	24.9
27.5°	2991.6	2100.0	710.6	142.6	86.0	45.3	15.8	2.3	0.0	0.0	0.0
30°	3136.4	2106.8	491.1	76.9	33.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3301.6	2104.5	307.8	40.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	3428.4	2066.1	147.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3620.7	2009.5	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3840.2	1907.7	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4037.1	1803.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4261.1	1674.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4654.9	1620.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5168.6	1577.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5485.4	1450.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5650.6	1319.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5895.0	1255.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6257.0	1260.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6822.8	1323.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7135.1	1260.5	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6870.3	1009.3	43.0	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	6641.7	927.8	43.0	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	5489.9	604.2	40.7	11.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3998.6	334.9	33.9	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2326.3	167.5	24.9	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	606.5	83.7	20.4	11.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0
80°	119.9	54.3	18.1	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	56.6	38.5	18.1	13.6	11.3	6.8	2.3	0.0	0.0	0.0	0.0
85°	29.4	18.1	18.1	13.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0
87.5°	13.6	6.8	6.8	6.8	6.8	4.5	2.3	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)