

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: P482018

Luminaire Tested: **IFLD-S-SA3B-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482018
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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

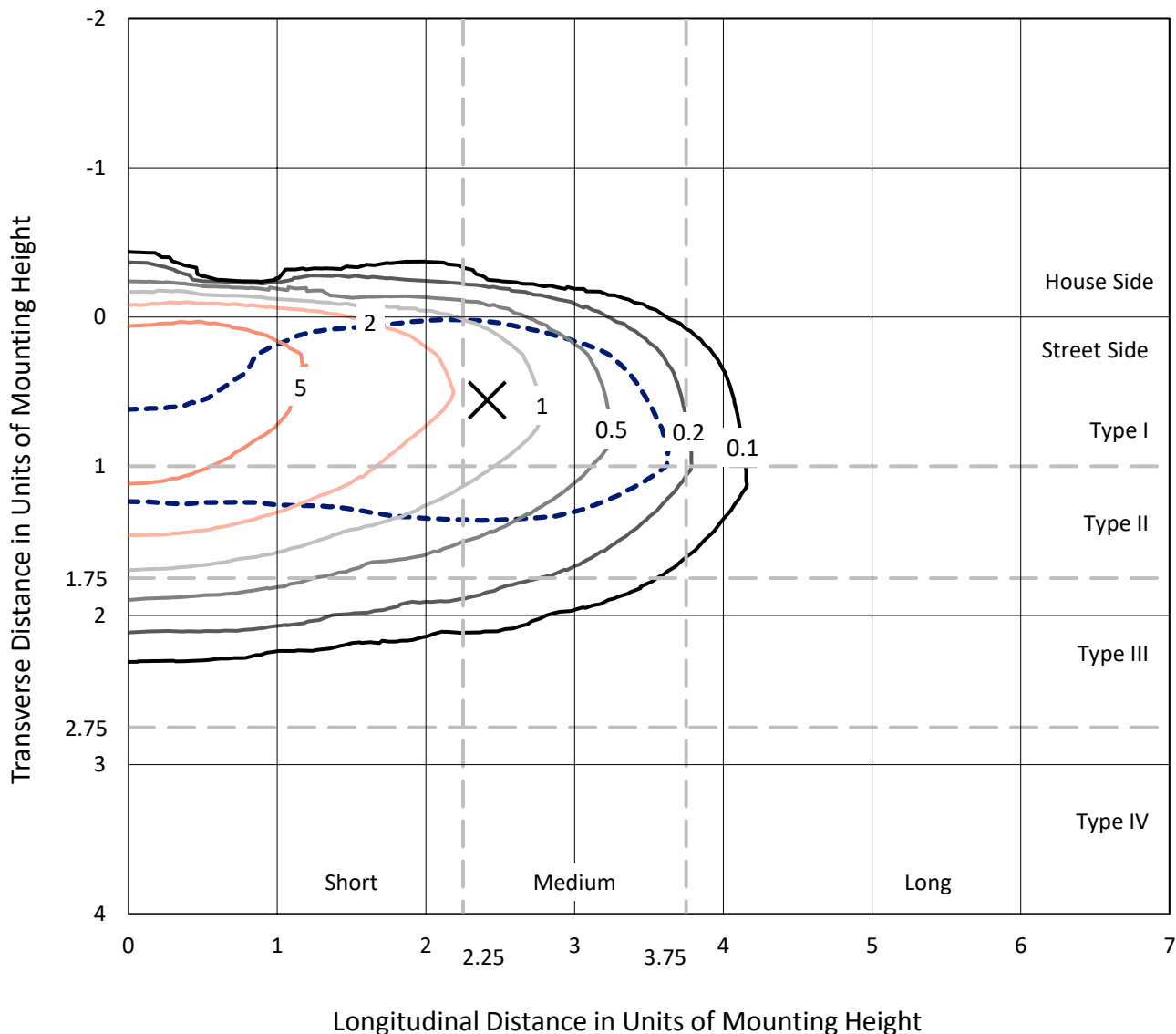
Lumens per Lamp: N/A
Luminaire Lumens: 13194.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

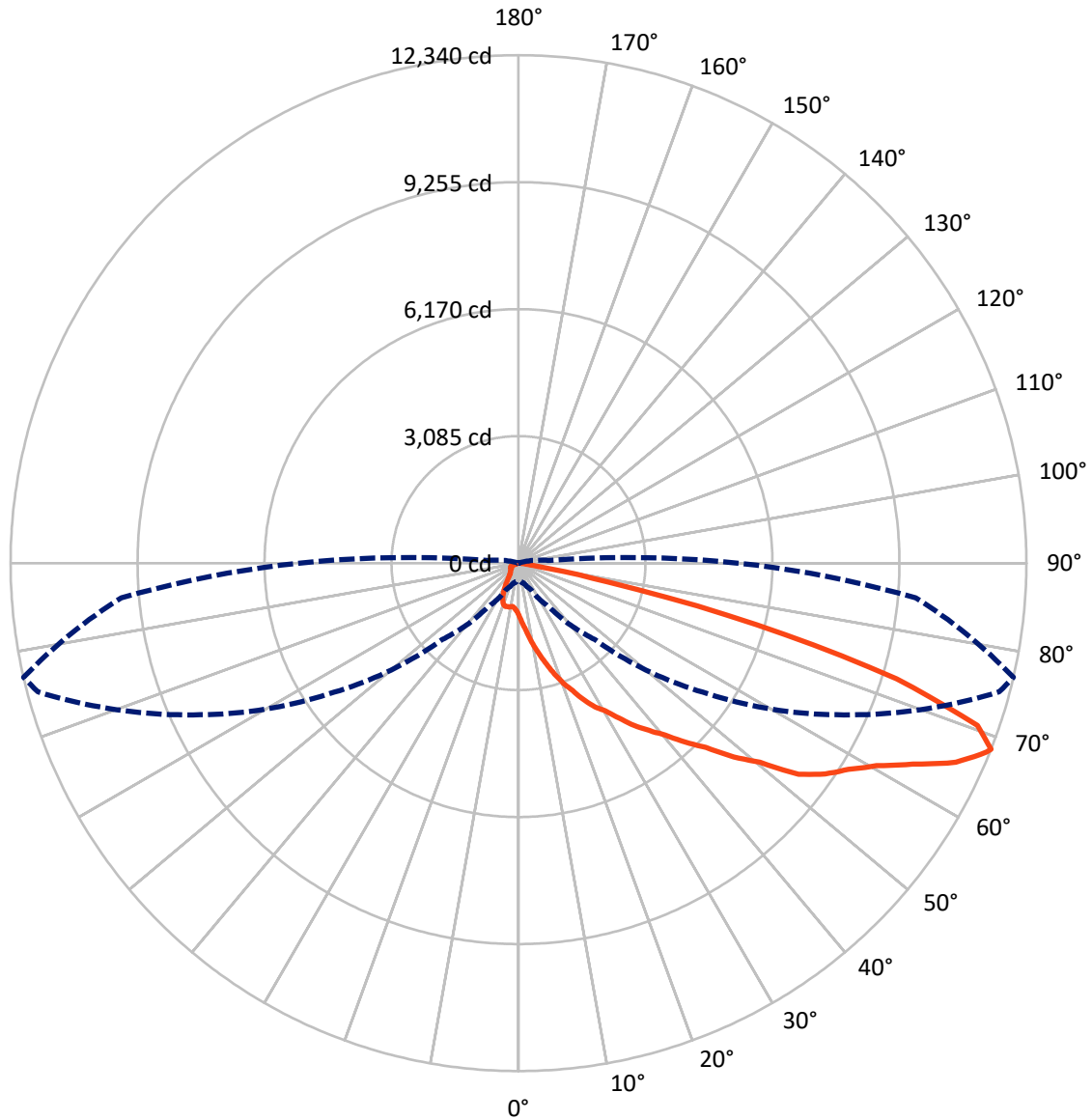
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 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	598.4	0.0	598.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	12596.4	0.0	12596.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	13194.7	0.0	13194.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	1.1
10°-20°	544.4	4.1
20°-30°	1055.0	8.0
30°-40°	1839.2	13.9
40°-50°	2693.7	20.4
50°-60°	3164.7	24.0
60°-70°	2672.3	20.3
70°-80°	1035.8	7.9
80°-90°	42.1	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°	13194.7	100.0
0°-180°	13194.7	100.0

Coefficient of Utilization



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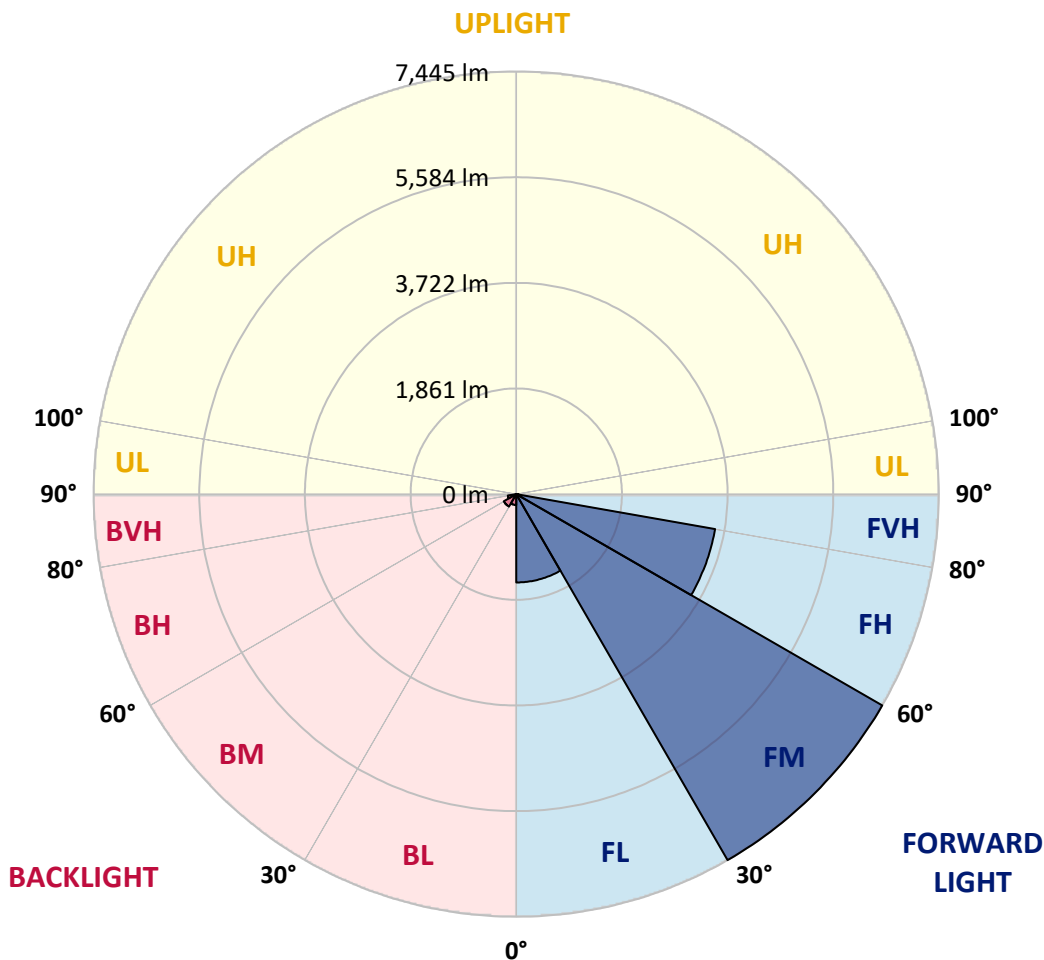
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.8	11.8			
FM (30°-60°)	7444.7	56.4			
FH (60°-80°)	3557.0	27.0			G2/5000
FVH (80°-90°)	38.9	0.3			G1/100
BL (0°-30°)	191.2	1.4	B1/500		
BM (30°-60°)	252.8	1.9	B1/1000		
BH (60°-80°)	151.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4
2.5°	1919.7	1883.3	1845.1	1834.2	1763.3	1683.3	1608.8	1536.1	1414.3	1416.1	1332.5
5°	2474.1	2428.7	2397.8	2390.5	2279.6	2141.4	2028.7	1823.3	1621.5	1576.1	1423.4
7.5°	2930.4	2915.9	2870.4	2832.2	2750.4	2581.4	2448.7	2154.2	1846.9	1796.0	1534.3
10°	3206.7	3228.5	3248.5	3199.4	3135.8	3014.0	2832.2	2514.1	2103.3	2039.6	1677.9
12.5°	3501.2	3464.8	3477.6	3517.6	3433.9	3406.7	3181.3	2884.9	2403.2	2281.4	1859.7
15°	3577.6	3592.1	3623.0	3739.3	3795.7	3717.5	3523.0	3184.9	2714.1	2545.0	2028.7
17.5°	3628.5	3621.2	3659.4	3833.9	3919.3	3993.8	3872.0	3519.4	2984.9	2834.0	2239.6
20°	3692.1	3652.1	3735.7	3846.6	4044.7	4201.1	4195.6	3855.7	3268.5	3108.5	2448.7
22.5°	3928.4	3897.5	3964.8	3975.7	4113.8	4332.0	4384.7	4130.2	3559.4	3363.0	2674.1
25°	4364.7	4421.0	4341.1	4272.0	4313.8	4457.4	4495.6	4373.8	3852.1	3672.1	2899.5
27.5°	5002.8	4995.5	4837.3	4748.3	4648.3	4630.1	4657.4	4601.0	4082.9	3953.9	3084.9
30°	5688.1	5628.1	5482.7	5268.2	5048.2	4911.9	4873.7	4815.5	4353.8	4166.5	3268.5
32.5°	6233.5	6266.2	6104.4	5824.4	5459.0	5275.4	5091.8	5028.2	4651.9	4486.5	3479.4
35°	6735.2	6691.6	6562.5	6326.2	5998.9	5702.6	5415.4	5279.1	5010.0	4846.4	3712.1
37.5°	7106.0	7160.6	6915.1	6689.7	6364.3	6118.9	5837.2	5539.0	5379.1	5160.9	3995.7
40°	7456.9	7371.4	7206.0	6998.8	6697.0	6509.8	6324.3	5859.0	5771.7	5489.9	4315.6
42.5°	7395.1	7400.5	7309.6	7142.4	6924.2	6817.0	6753.4	6248.0	6128.0	5948.0	4628.3
45°	7142.4	7164.2	7195.1	7113.3	7131.5	7024.2	7195.1	6695.2	6577.0	6386.2	4988.2
47.5°	6864.2	6900.6	6893.3	7042.4	7211.5	7247.8	7675.0	7191.5	7140.6	7035.1	5486.3
50°	6402.5	6417.1	6557.0	6827.9	7058.8	7438.7	8035.0	7733.2	7811.4	7604.1	6078.9
52.5°	5613.6	5666.3	6026.2	6413.4	6878.8	7535.0	8278.5	8538.5	8736.6	8524.0	6647.9
55°	4615.6	4688.3	5042.8	5768.1	6449.8	7389.6	8500.3	8963.9	9365.6	9043.9	6993.3
57.5°	3713.9	3721.2	4039.3	4788.3	5840.8	7104.2	8613.0	9171.1	9711.0	9452.9	7415.1
60°	2830.4	2801.3	3086.7	3735.7	4815.5	6402.5	8331.3	9276.6	10141.9	9992.8	7922.2
62.5°	1821.5	1776.1	2086.9	2719.5	3761.2	5233.6	7767.7	9278.4	10814.5	10758.1	8771.2
65°	901.7	870.8	1138.0	1667.0	2603.2	4002.9	6964.2	9243.8	11636.1	11672.5	9598.3
67.5°	476.3	487.2	572.6	845.3	1501.6	2828.6	5753.5	8838.4	12056.1	12259.7	9798.3
68°	438.1	441.7	509.0	703.5	1303.4	2623.2	5466.3	8720.3	12088.8	12339.7	9687.4
70°	356.3	361.8	385.4	441.7	705.3	1707.0	4217.4	7716.8	11596.1	11825.2	8769.4
72.5°	283.6	299.9	314.5	338.1	414.5	896.2	2623.2	6013.5	9580.1	9605.6	6826.1
75°	216.3	229.1	258.1	278.1	323.6	492.6	1248.9	3666.6	6286.2	5977.1	4021.1
77.5°	167.2	178.2	190.9	218.1	270.9	332.7	381.8	1556.1	2670.4	2197.8	1136.2
80°	100.0	107.3	149.1	170.9	236.3	225.4	150.9	432.7	541.7	427.2	207.2
82.5°	58.2	63.6	85.4	130.9	165.4	121.8	89.1	134.5	132.7	116.3	69.1
85°	1.8	3.6	47.3	78.2	58.2	32.7	54.5	56.4	47.3	43.6	30.9
87.5°	0.0	1.8	12.7	10.9	12.7	7.3	10.9	14.5	18.2	16.4	12.7
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°	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4
2.5°	1276.1	1236.1	1147.1	1079.8	1007.1	963.5	919.8	892.6	878.0	868.9	876.2
5°	1308.9	1225.2	1081.6	954.4	870.8	814.4	758.0	729.0	701.7	687.2	696.2
7.5°	1381.6	1256.1	1018.0	879.8	781.7	694.4	623.5	567.2	534.5	505.4	510.8
10°	1470.7	1274.3	1019.8	836.2	694.4	556.3	456.3	385.4	345.4	319.9	318.1
12.5°	1561.5	1345.2	1027.1	792.6	587.2	418.1	299.9	247.2	223.6	210.9	210.9
15°	1699.7	1408.8	1008.9	712.6	445.4	272.7	205.4	187.2	178.2	167.2	169.1
17.5°	1819.7	1510.6	999.8	592.6	305.4	196.3	170.9	150.9	141.8	130.9	130.9
20°	1981.5	1574.3	950.7	458.1	210.9	163.6	138.2	120.0	105.4	96.3	98.2
22.5°	2128.7	1623.4	863.5	312.7	161.8	129.1	101.8	83.6	70.9	60.0	61.8
25°	2288.7	1672.4	736.2	192.7	114.5	80.0	54.5	40.0	27.3	20.0	20.0
27.5°	2403.2	1687.0	570.8	114.5	69.1	36.4	12.7	1.8	0.0	0.0	0.0
30°	2519.6	1692.4	394.5	61.8	27.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2652.3	1690.6	247.2	32.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	2754.1	1659.7	118.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2908.6	1614.3	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3084.9	1532.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3243.1	1448.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3423.0	1345.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3739.3	1301.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4152.0	1267.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4406.5	1165.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4539.2	1059.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4735.5	1008.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5026.4	1012.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5480.9	1063.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5731.7	1012.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5519.0	810.8	34.5	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	5335.4	745.3	34.5	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4410.1	485.4	32.7	9.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3212.2	269.0	27.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1868.8	134.5	20.0	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	487.2	67.3	16.4	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	96.3	43.6	14.5	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.4	30.9	14.5	10.9	9.1	5.5	1.8	0.0	0.0	0.0	0.0
85°	23.6	14.5	14.5	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0
87.5°	10.9	5.5	5.5	5.5	5.5	3.6	1.8	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)