

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: P482156

Luminaire Tested: **IFLD-M-SA4C-760-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482156
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-760-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

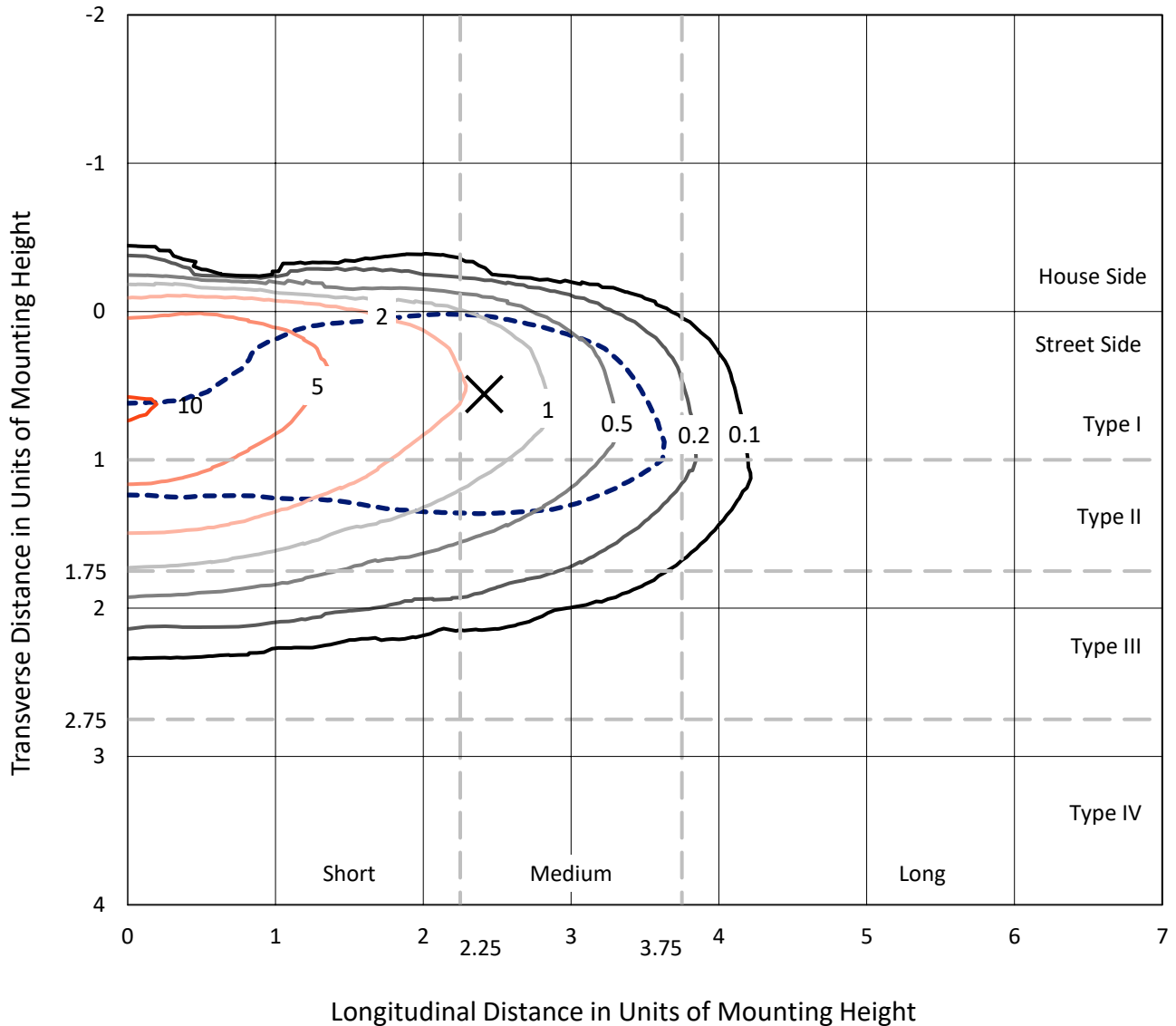
Lumens per Lamp: N/A
Luminaire Lumens: 22865.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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

REPORT NUMBER: P482156
 CATALOG NUMBER: IFLD-M-SA4C-760-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

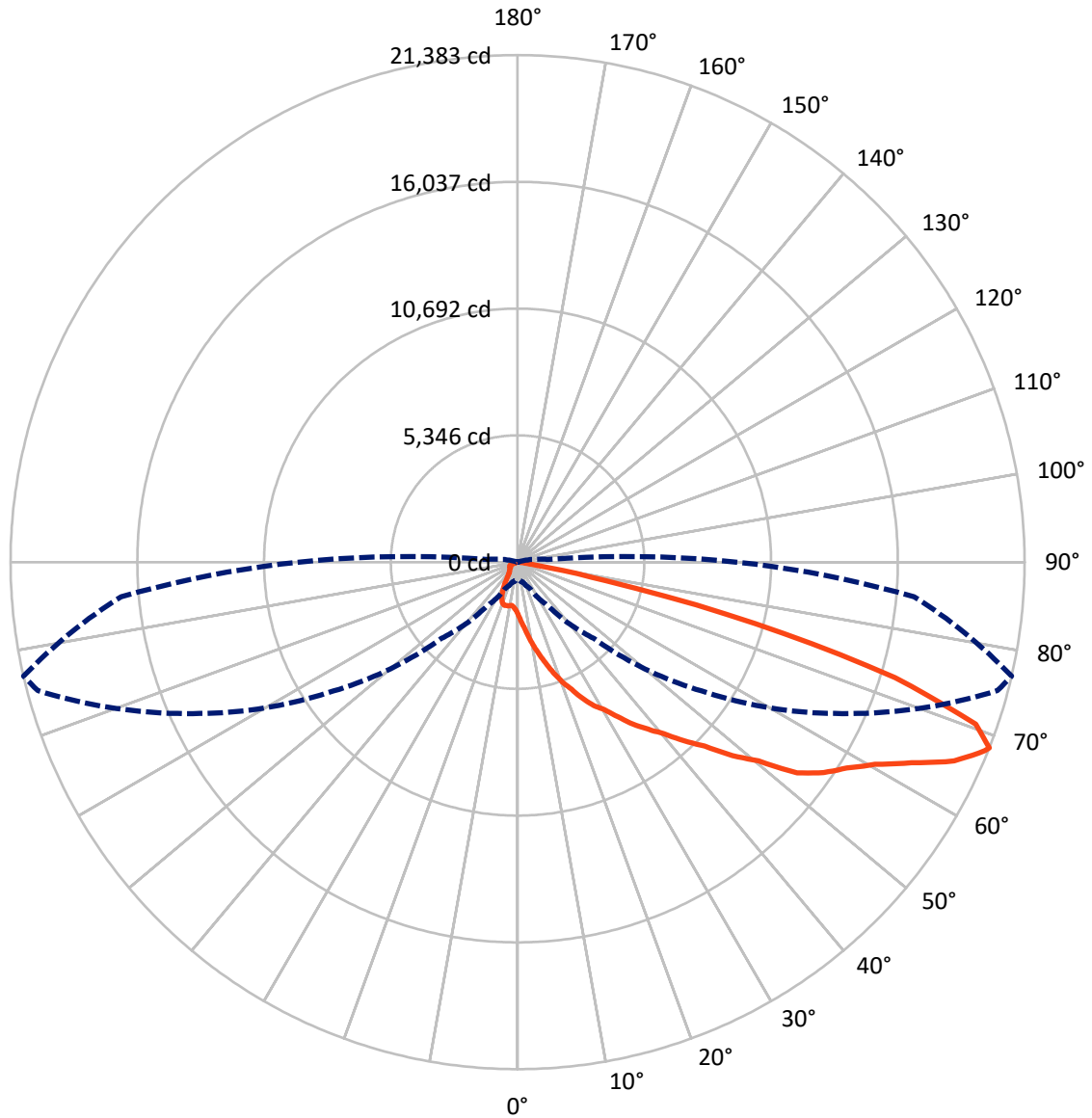
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P482156
CATALOG NUMBER: IFLD-M-SA4C-760-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P482156
 CATALOG NUMBER: IFLD-M-SA4C-760-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.9	0.0	1036.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	21828.2	0.0	21828.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	22865.1	0.0	22865.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.1
10°-20°	943.3	4.1
20°-30°	1828.2	8.0
30°-40°	3187.1	13.9
40°-50°	4667.9	20.4
50°-60°	5484.0	24.0
60°-70°	4630.8	20.3
70°-80°	1795.0	7.9
80°-90°	73.0	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°	22865.1	100.0
0°-180°	22865.1	100.0



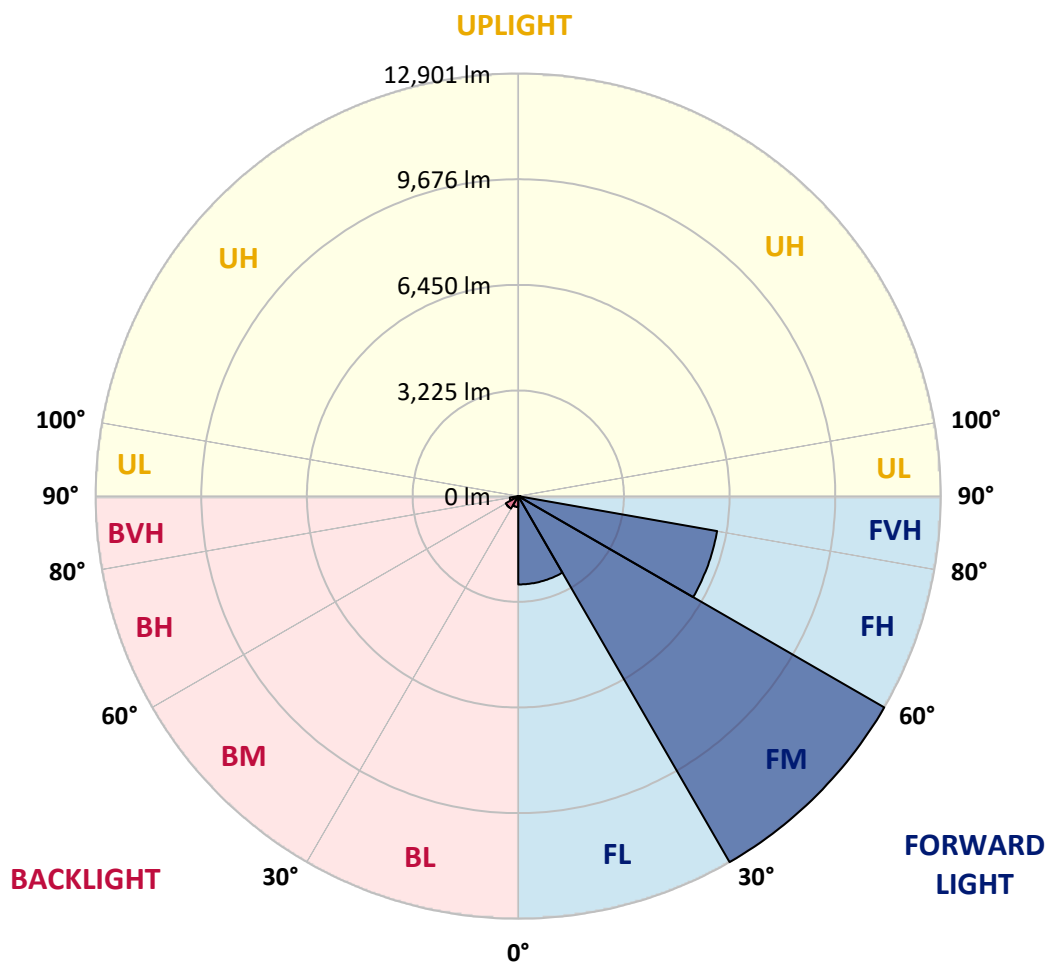
REPORT NUMBER: P482156
 CATALOG NUMBER: IFLD-M-SA4C-760-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2696.0	11.8			
FM (30°-60°)	12900.9	56.4			
FH (60°-80°)	6164.0	27.0			G3/7500
FVH (80°-90°)	67.3	0.3			G1/100
BL (0°-30°)	331.3	1.4	B1/500		
BM (30°-60°)	438.2	1.9	B1/1000		
BH (60°-80°)	261.8	1.1	B1/500		G1/500
BVH (80°-90°)	5.7	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





REPORT NUMBER: P482156

CATALOG NUMBER: IFLD-M-SA4C-760-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4
2.5°	3326.6	3263.6	3197.4	3178.5	3055.7	2917.1	2787.9	2661.9	2450.8	2454.0	2309.1
5°	4287.4	4208.6	4155.1	4142.5	3950.3	3710.9	3515.6	3159.6	2810.0	2731.2	2466.6
7.5°	5078.1	5052.9	4974.1	4908.0	4766.2	4473.2	4243.3	3732.9	3200.6	3112.4	2658.7
10°	5556.9	5594.7	5629.4	5544.3	5434.0	5223.0	4908.0	4356.7	3644.7	3534.5	2907.6
12.5°	6067.2	6004.2	6026.3	6095.6	5950.7	5903.4	5512.8	4999.3	4164.5	3953.5	3222.6
15°	6199.5	6224.7	6278.3	6479.9	6577.6	6442.1	6105.0	5519.1	4703.2	4410.2	3515.6
17.5°	6287.7	6275.1	6341.3	6643.7	6791.8	6920.9	6709.9	6098.7	5172.6	4911.1	3881.0
20°	6398.0	6328.7	6473.6	6665.8	7009.1	7280.0	7270.6	6681.5	5664.0	5386.8	4243.3
22.5°	6807.5	6754.0	6870.5	6889.4	7128.8	7506.9	7598.2	7157.2	6168.0	5827.8	4633.9
25°	7563.6	7661.2	7522.6	7402.9	7475.3	7724.2	7790.4	7579.3	6675.2	6363.3	5024.5
27.5°	8669.3	8656.7	8382.6	8228.2	8055.0	8023.5	8070.7	7973.1	7075.3	6851.6	5345.8
30°	9856.9	9752.9	9500.9	9129.2	8748.0	8511.8	8445.6	8344.8	7544.7	7220.2	5664.0
32.5°	10801.9	10858.6	10578.3	10093.1	9460.0	9141.8	8823.6	8713.4	8061.3	7774.6	6029.4
35°	11671.4	11595.8	11372.1	10962.6	10395.6	9882.1	9384.4	9148.1	8681.9	8398.3	6432.6
37.5°	12314.0	12408.5	11983.2	11592.6	11028.7	10603.5	10115.2	9598.6	9321.3	8943.3	6924.1
40°	12922.0	12773.9	12487.3	12128.1	11605.2	11280.8	10959.4	10153.0	10001.8	9513.5	7478.5
42.5°	12814.9	12824.3	12666.8	12377.0	11999.0	11813.1	11702.9	10827.1	10619.2	10307.4	8020.3
45°	12377.0	12414.8	12468.4	12326.6	12358.1	12172.3	12468.4	11602.1	11397.3	11066.5	8644.1
47.5°	11895.0	11958.0	11945.4	12203.8	12496.7	12559.7	13300.0	12462.1	12373.9	12191.2	9507.2
50°	11094.9	11120.1	11362.7	11832.0	12232.1	12890.5	13923.7	13400.8	13536.3	13177.2	10534.2
52.5°	9727.7	9819.1	10442.8	11113.8	11920.2	13057.4	14345.9	14796.3	15139.7	14771.1	11520.2
55°	7998.3	8124.3	8738.6	9995.5	11176.8	12805.4	14730.2	15533.5	16229.7	15672.1	12118.7
57.5°	6435.8	6448.4	6999.7	8297.5	10121.5	12310.9	14925.5	15892.6	16828.2	16380.9	12849.5
60°	4904.8	4854.4	5349.0	6473.6	8344.8	11094.9	14437.2	16075.3	17574.8	17316.5	13728.4
62.5°	3156.5	3077.7	3616.4	4712.7	6517.7	9069.3	13460.7	16078.5	18740.4	18642.7	15199.6
65°	1562.5	1508.9	1972.0	2888.7	4511.0	6936.7	12068.3	16018.6	20164.2	20227.2	16632.9
67.5°	825.3	844.2	992.3	1464.8	2602.0	4901.7	9970.3	15316.1	20891.9	21244.7	16979.4
68°	759.2	765.5	882.0	1219.1	2258.7	4545.7	9472.6	15111.4	20948.6	21383.3	16787.2
70°	617.4	626.9	667.8	765.5	1222.3	2958.0	7308.4	13372.5	20094.9	20491.8	15196.4
72.5°	491.4	519.8	545.0	585.9	718.2	1553.0	4545.7	10420.8	16601.4	16645.5	11828.9
75°	374.9	396.9	447.3	482.0	560.7	853.7	2164.2	6353.9	10893.3	10357.8	6968.2
77.5°	289.8	308.7	330.8	378.0	469.4	576.5	661.5	2696.5	4627.6	3808.6	1968.9
80°	173.3	185.9	258.3	296.1	409.5	390.6	261.5	749.7	938.8	740.3	359.1
82.5°	100.8	110.3	148.1	226.8	286.7	211.1	154.4	233.1	230.0	201.6	119.7
85°	3.2	6.3	81.9	135.5	100.8	56.7	94.5	97.7	81.9	75.6	53.6
87.5°	0.0	3.2	22.1	18.9	22.1	12.6	18.9	25.2	31.5	28.4	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482156

CATALOG NUMBER: IFLD-M-SA4C-760-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4	2189.4
2.5°	2211.4	2142.1	1987.8	1871.2	1745.2	1669.6	1594.0	1546.7	1521.5	1505.8	1518.4
5°	2268.1	2123.2	1874.4	1653.8	1508.9	1411.3	1313.6	1263.2	1216.0	1190.8	1206.5
7.5°	2394.1	2176.8	1764.1	1524.7	1354.6	1203.4	1080.5	982.9	926.1	875.7	885.2
10°	2548.5	2208.3	1767.2	1449.1	1203.4	964.0	790.7	667.8	598.5	554.4	551.3
12.5°	2706.0	2331.1	1779.8	1373.5	1017.5	724.5	519.8	428.4	387.5	365.4	365.4
15°	2945.4	2441.4	1748.3	1234.9	771.8	472.5	356.0	324.5	308.7	289.8	293.0
17.5°	3153.3	2617.8	1732.6	1027.0	529.2	340.2	296.1	261.5	245.7	226.8	226.8
20°	3433.7	2728.0	1647.5	793.8	365.4	283.5	239.4	207.9	182.7	167.0	170.1
22.5°	3688.8	2813.1	1496.3	541.8	280.4	223.7	176.4	144.9	122.9	104.0	107.1
25°	3966.1	2898.2	1275.8	333.9	198.5	138.6	94.5	69.3	47.3	34.7	34.7
27.5°	4164.5	2923.4	989.2	198.5	119.7	63.0	22.1	3.2	0.0	0.0	0.0
30°	4366.1	2932.8	683.6	107.1	47.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4596.1	2929.7	428.4	56.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	4772.5	2876.1	204.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5040.3	2797.3	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5345.8	2655.6	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5619.9	2510.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5931.8	2331.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6479.9	2255.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7195.0	2195.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7636.0	2019.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7866.0	1836.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8206.2	1748.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8710.2	1754.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9497.8	1842.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9932.5	1754.6	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9563.9	1405.0	59.9	15.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	9245.7	1291.6	59.9	15.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	7642.3	841.1	56.7	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5566.3	466.2	47.3	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	3238.4	233.1	34.7	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	844.2	116.6	28.4	15.8	9.5	3.2	0.0	0.0	0.0	0.0	0.0
80°	167.0	75.6	25.2	18.9	12.6	6.3	0.0	0.0	0.0	0.0	0.0
82.5°	78.8	53.6	25.2	18.9	15.8	9.5	3.2	0.0	0.0	0.0	0.0
85°	41.0	25.2	25.2	18.9	18.9	12.6	6.3	0.0	0.0	0.0	0.0
87.5°	18.9	9.5	9.5	9.5	9.5	6.3	3.2	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)