

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: P482000

Luminaire Tested: **IFLD-M-SA4C-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482000
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

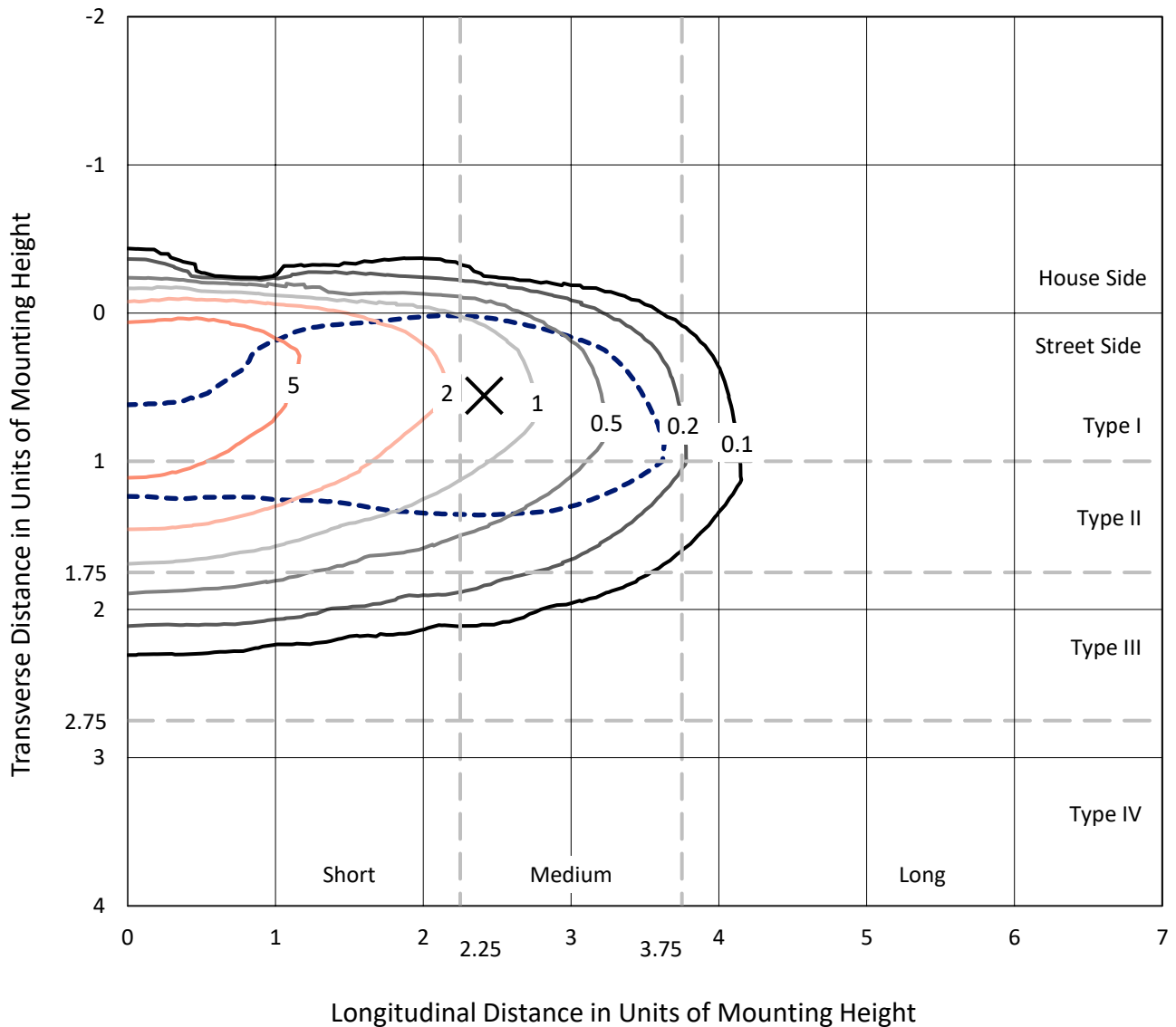
Lumens per Lamp: N/A
Luminaire Lumens: 20354.8 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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: P482000
 CATALOG NUMBER: IFLD-M-SA4C-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

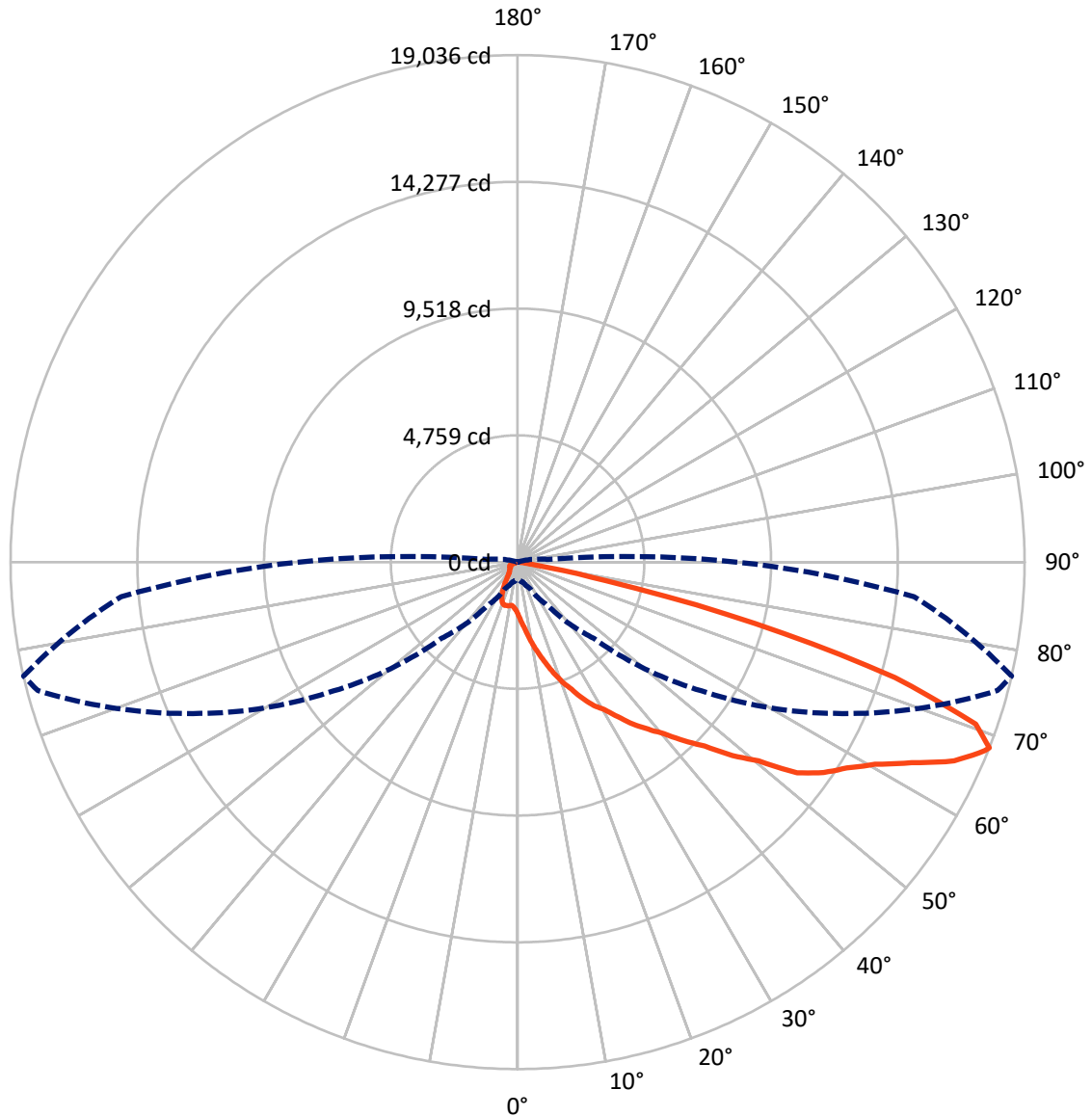
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P482000
CATALOG NUMBER: IFLD-M-SA4C-730-U-T2R-HSS

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	923.1	0.0	923.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	19431.8	0.0	19431.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	20354.8	0.0	20354.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	1.1
10°-20°	839.8	4.1
20°-30°	1627.5	8.0
30°-40°	2837.2	13.9
40°-50°	4155.4	20.4
50°-60°	4882.0	24.0
60°-70°	4122.4	20.3
70°-80°	1597.9	7.9
80°-90°	65.0	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°	20354.8	100.0
0°-180°	20354.8	100.0

Coefficient of Utilization



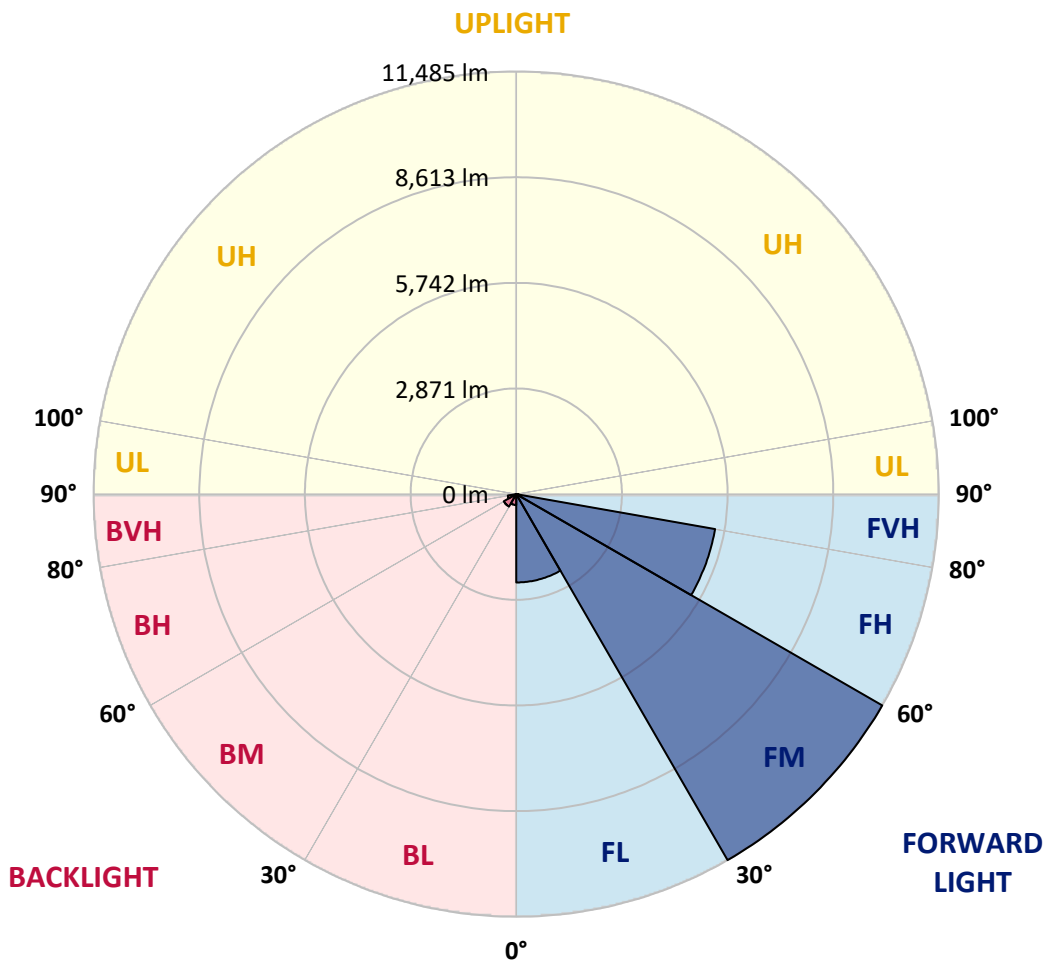
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2400.0	11.8			
FM (30°-60°)	11484.6	56.4			
FH (60°-80°)	5487.2	27.0			G3/7500
FVH (80°-90°)	59.9	0.3			G1/100
BL (0°-30°)	294.9	1.4	B1/500		
BM (30°-60°)	390.0	1.9	B1/1000		
BH (60°-80°)	233.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	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: P482000

CATALOG NUMBER: IFLD-M-SA4C-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	2961.4	2905.3	2846.4	2829.6	2720.2	2596.8	2481.8	2369.7	2181.8	2184.6	2055.6
5°	3816.7	3746.6	3698.9	3687.7	3516.6	3303.5	3129.6	2812.7	2501.5	2431.3	2195.8
7.5°	4520.6	4498.1	4428.0	4369.1	4242.9	3982.1	3777.4	3323.1	2849.2	2770.7	2366.8
10°	4946.8	4980.5	5011.3	4935.6	4837.5	4649.6	4369.1	3878.4	3244.6	3146.5	2588.4
12.5°	5401.1	5345.0	5364.7	5426.4	5297.4	5255.3	4907.6	4450.5	3707.3	3519.4	2868.8
15°	5518.9	5541.3	5589.0	5768.5	5855.4	5734.8	5434.8	4913.2	4186.9	3926.1	3129.6
17.5°	5597.4	5586.2	5645.1	5914.3	6046.1	6161.1	5973.2	5429.2	4604.7	4371.9	3454.9
20°	5695.6	5633.9	5762.9	5934.0	6239.6	6480.8	6472.4	5948.0	5042.2	4795.4	3777.4
22.5°	6060.1	6012.5	6116.2	6133.1	6346.2	6682.7	6764.0	6371.4	5490.9	5188.0	4125.2
25°	6733.2	6820.1	6696.7	6590.2	6654.7	6876.2	6935.1	6747.2	5942.4	5664.7	4472.9
27.5°	7717.5	7706.3	7462.3	7324.9	7170.7	7142.6	7184.7	7097.7	6298.5	6099.4	4758.9
30°	8774.7	8682.2	8457.8	8126.9	7787.6	7577.3	7518.4	7428.7	6716.4	6427.5	5042.2
32.5°	9616.0	9666.5	9416.9	8985.1	8421.4	8138.1	7854.9	7756.8	7176.3	6921.1	5367.5
35°	10390.0	10322.7	10123.6	9759.0	9254.3	8797.2	8354.1	8143.8	7728.7	7476.3	5726.4
37.5°	10962.1	11046.2	10667.6	10319.9	9817.9	9439.4	9004.7	8544.8	8298.0	7961.5	6163.9
40°	11503.3	11371.5	11116.3	10796.6	10331.1	10042.3	9756.2	9038.3	8903.7	8469.1	6657.5
42.5°	11408.0	11416.4	11276.2	11018.2	10681.7	10516.2	10418.1	9638.5	9453.4	9175.7	7139.8
45°	11018.2	11051.8	11099.5	10973.3	11001.4	10835.9	11099.5	10328.3	10146.0	9851.6	7695.1
47.5°	10589.1	10645.2	10634.0	10864.0	11124.8	11180.8	11839.9	11093.9	11015.4	10852.7	8463.5
50°	9876.8	9899.3	10115.2	10533.0	10889.2	11475.3	12395.1	11929.6	12050.2	11730.5	9377.7
52.5°	8659.8	8741.1	9296.3	9893.7	10611.6	11623.9	12770.9	13171.9	13477.6	13149.5	10255.4
55°	7120.2	7232.4	7779.2	8898.1	9949.7	11399.6	13113.0	13828.1	14447.9	13951.5	10788.2
57.5°	5729.2	5740.5	6231.2	7386.6	9010.3	10959.3	13286.9	14147.8	14980.7	14582.5	11438.8
60°	4366.3	4321.5	4761.7	5762.9	7428.7	9876.8	12852.2	14310.5	15645.3	15415.4	12221.2
62.5°	2809.9	2739.8	3219.4	4195.3	5802.1	8073.6	11982.9	14313.3	16682.9	16596.0	13530.9
65°	1390.9	1343.3	1755.5	2571.6	4015.8	6175.1	10743.4	14260.0	17950.5	18006.6	14806.8
67.5°	734.7	751.6	883.4	1304.0	2316.4	4363.5	8875.7	13634.6	18598.3	18912.4	15115.3
68°	675.8	681.5	785.2	1085.3	2010.7	4046.6	8432.6	13452.3	18648.8	19035.8	14944.2
70°	549.6	558.1	594.5	681.5	1088.1	2633.3	6506.0	11904.4	17888.8	18242.1	13528.1
72.5°	437.5	462.7	485.1	521.6	639.4	1382.5	4046.6	9276.7	14778.8	14818.0	10530.2
75°	333.7	353.3	398.2	429.1	499.2	760.0	1926.6	5656.3	9697.4	9220.6	6203.2
77.5°	258.0	274.8	294.5	336.5	417.8	513.2	588.9	2400.5	4119.6	3390.4	1752.7
80°	154.2	165.5	230.0	263.6	364.6	347.7	232.8	667.4	835.7	659.0	319.7
82.5°	89.7	98.2	131.8	201.9	255.2	187.9	137.4	207.5	204.7	179.5	106.6
85°	2.8	5.6	72.9	120.6	89.7	50.5	84.1	86.9	72.9	67.3	47.7
87.5°	0.0	2.8	19.6	16.8	19.6	11.2	16.8	22.4	28.0	25.2	19.6
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°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1968.6	1906.9	1769.5	1665.8	1553.6	1486.3	1419.0	1376.9	1354.5	1340.5	1351.7
5°	2019.1	1890.1	1668.6	1472.3	1343.3	1256.3	1169.4	1124.5	1082.5	1060.0	1074.1
7.5°	2131.3	1937.8	1570.4	1357.3	1205.9	1071.3	961.9	874.9	824.5	779.6	788.0
10°	2268.7	1965.8	1573.2	1290.0	1071.3	858.1	703.9	594.5	532.8	493.6	490.8
12.5°	2408.9	2075.2	1584.4	1222.7	905.8	645.0	462.7	381.4	344.9	325.3	325.3
15°	2622.0	2173.4	1556.4	1099.3	687.1	420.6	316.9	288.8	274.8	258.0	260.8
17.5°	2807.1	2330.4	1542.4	914.2	471.1	302.9	263.6	232.8	218.7	201.9	201.9
20°	3056.7	2428.5	1466.7	706.7	325.3	252.4	213.1	185.1	162.7	148.6	151.4
22.5°	3283.9	2504.3	1332.1	482.3	249.6	199.1	157.0	129.0	109.4	92.5	95.3
25°	3530.6	2580.0	1135.8	297.3	176.7	123.4	84.1	61.7	42.1	30.8	30.8
27.5°	3707.3	2602.4	880.6	176.7	106.6	56.1	19.6	2.8	0.0	0.0	0.0
30°	3886.8	2610.8	608.5	95.3	42.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4091.5	2608.0	381.4	50.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	4248.6	2560.3	182.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4486.9	2490.2	56.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4758.9	2364.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5002.9	2235.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5280.5	2075.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5768.5	2007.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6405.1	1954.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6797.7	1797.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7002.4	1634.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7305.3	1556.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7754.0	1562.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8455.0	1640.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8842.0	1562.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8513.9	1250.7	53.3	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	8230.7	1149.8	53.3	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	6803.3	748.8	50.5	14.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4955.2	415.0	42.1	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2882.8	207.5	30.8	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	751.6	103.8	25.2	14.0	8.4	2.8	0.0	0.0	0.0	0.0	0.0
80°	148.6	67.3	22.4	16.8	11.2	5.6	0.0	0.0	0.0	0.0	0.0
82.5°	70.1	47.7	22.4	16.8	14.0	8.4	2.8	0.0	0.0	0.0	0.0
85°	36.5	22.4	22.4	16.8	16.8	11.2	5.6	0.0	0.0	0.0	0.0
87.5°	16.8	8.4	8.4	8.4	8.4	5.6	2.8	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)