

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: P481980

Luminaire Tested: **IFLD-S-SA3C-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481980  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-730-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

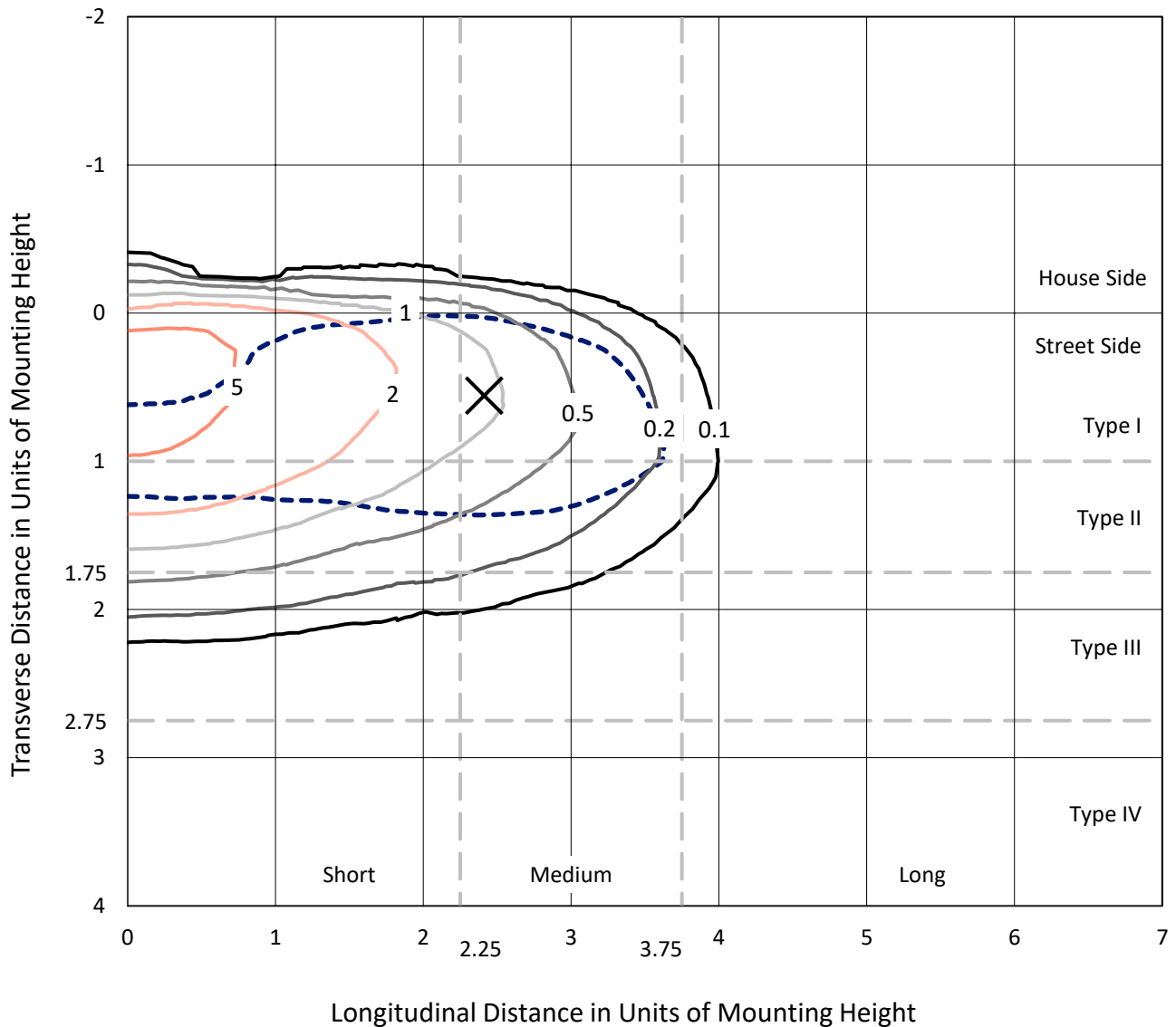
Lumens per Lamp: N/A  
Luminaire Lumens: 15164.6 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

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

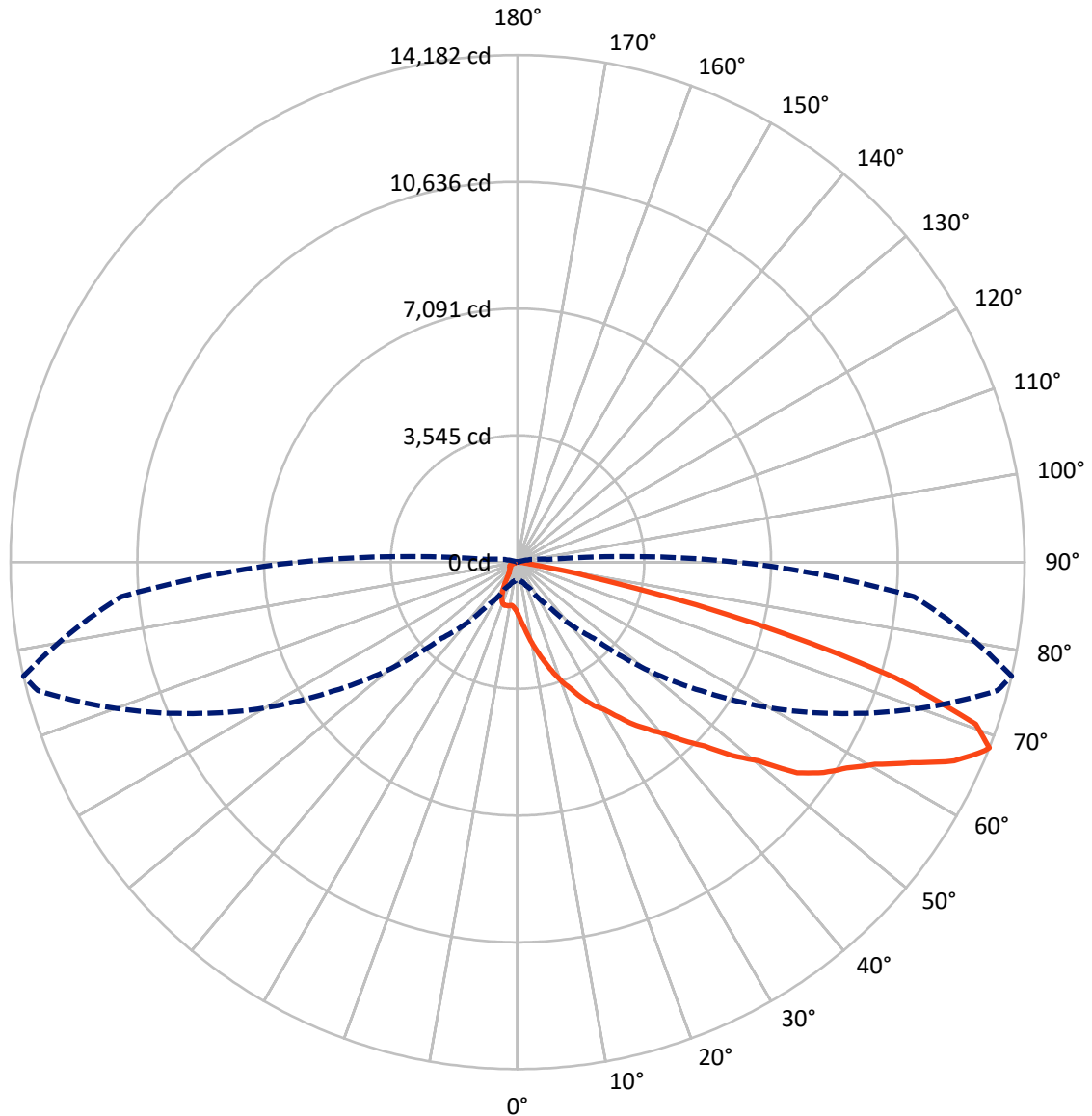
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	687.7	0.0	687.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	14476.9	0.0	14476.9
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	15164.6	0.0	15164.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.6	1.1
10°-20°	625.6	4.1
20°-30°	1212.5	8.0
30°-40°	2113.8	13.9
40°-50°	3095.8	20.4
50°-60°	3637.1	24.0
60°-70°	3071.2	20.3
70°-80°	1190.5	7.9
80°-90°	48.4	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°	15164.6	100.0
0°-180°	15164.6	100.0

**Coefficient of Utilization**



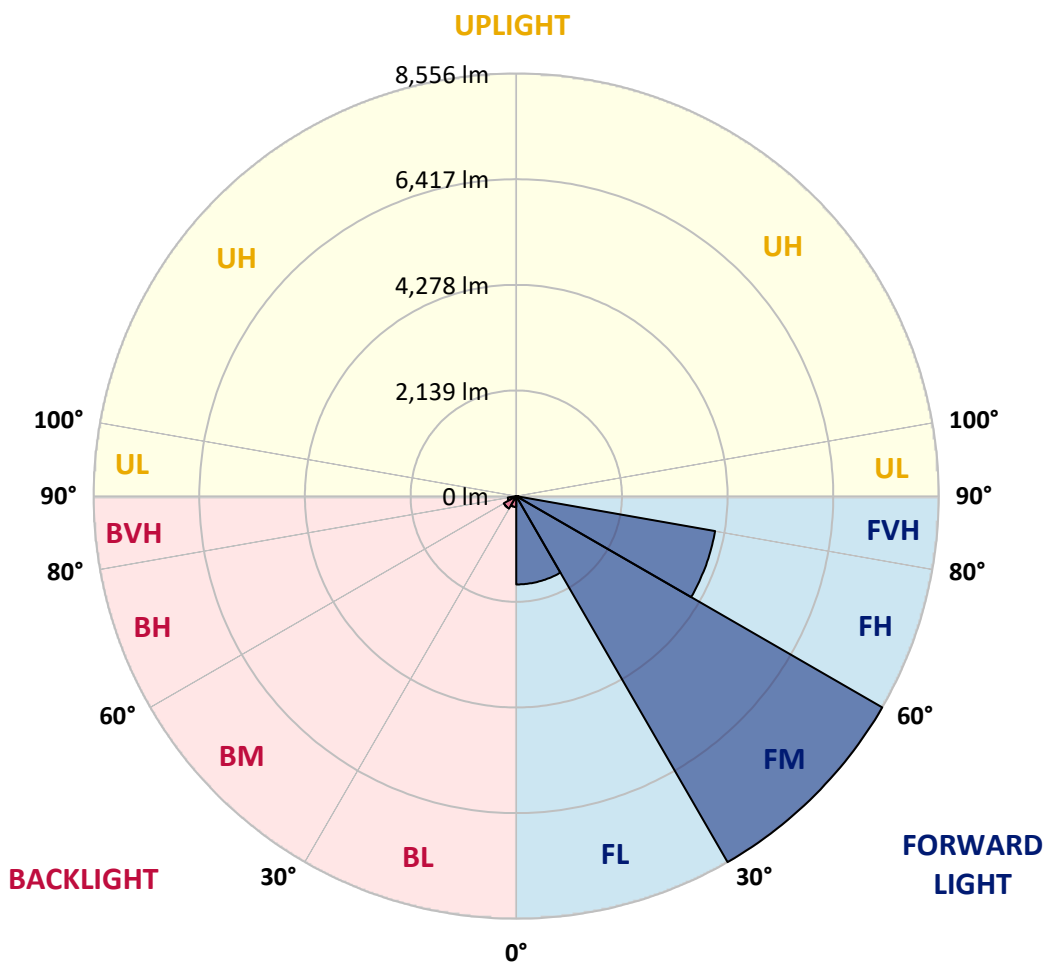
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.0	11.8			
FM (30°-60°)	8556.1	56.4			
FH (60°-80°)	4088.1	27.0			G2/5000
FVH (80°-90°)	44.7	0.3			G1/100
BL (0°-30°)	219.7	1.4	B1/500		
BM (30°-60°)	290.6	1.9	B1/1000		
BH (60°-80°)	173.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	2206.3	2164.5	2120.6	2108.1	2026.6	1934.7	1849.0	1765.4	1625.4	1627.5	1531.4
5°	2843.5	2791.2	2755.7	2747.4	2619.9	2461.1	2331.6	2095.5	1863.6	1811.4	1635.9
7.5°	3367.9	3351.2	3298.9	3255.1	3161.0	2966.7	2814.2	2475.8	2122.7	2064.2	1763.3
10°	3685.5	3710.5	3733.5	3677.1	3604.0	3464.0	3255.1	2889.4	2417.3	2344.1	1928.4
12.5°	4023.9	3982.1	3996.8	4042.7	3946.6	3915.3	3656.2	3315.7	2762.0	2622.0	2137.3
15°	4111.7	4128.4	4163.9	4297.6	4362.4	4272.5	4049.0	3660.4	3119.3	2925.0	2331.6
17.5°	4170.2	4161.8	4205.7	4406.2	4504.4	4590.1	4450.1	4044.8	3430.6	3257.2	2574.0
20°	4243.3	4197.3	4293.4	4420.9	4648.6	4828.3	4822.0	4431.3	3756.5	3572.6	2814.2
22.5°	4514.9	4479.4	4556.7	4569.2	4728.0	4978.7	5039.3	4746.8	4090.8	3865.1	3073.3
25°	5016.3	5081.1	4989.1	4909.8	4957.8	5122.9	5166.7	5026.8	4427.1	4220.3	3332.4
27.5°	5749.6	5741.3	5559.5	5457.1	5342.2	5321.3	5352.7	5287.9	4692.5	4544.1	3545.5
30°	6537.3	6468.3	6301.2	6054.7	5801.9	5645.2	5601.3	5534.4	5003.8	4788.6	3756.5
32.5°	7164.1	7201.7	7015.7	6694.0	6274.0	6063.0	5852.0	5778.9	5346.4	5156.3	3998.8
35°	7740.7	7690.6	7542.2	7270.6	6894.6	6554.0	6223.9	6067.2	5758.0	5570.0	4266.3
37.5°	8166.9	8229.6	7947.5	7688.5	7314.5	7032.4	6708.6	6366.0	6182.1	5931.4	4592.2
40°	8570.1	8471.9	8281.8	8043.6	7696.8	7481.6	7268.5	6733.7	6633.4	6309.6	4959.9
42.5°	8499.1	8505.4	8400.9	8208.7	7958.0	7834.7	7761.6	7180.8	7042.9	6836.1	5319.3
45°	8208.7	8233.8	8269.3	8175.3	8196.2	8072.9	8269.3	7694.7	7558.9	7339.6	5732.9
47.5°	7889.0	7930.8	7922.5	8093.8	8288.1	8329.9	8820.9	8265.1	8206.6	8085.4	6305.4
50°	7358.4	7375.1	7536.0	7847.3	8112.6	8549.2	9234.5	8887.7	8977.5	8739.4	6986.5
52.5°	6451.6	6512.2	6925.9	7370.9	7905.8	8660.0	9514.5	9813.2	10041.0	9796.5	7640.4
55°	5304.6	5388.2	5795.6	6629.2	7412.7	8492.8	9769.4	10302.1	10763.9	10394.1	8037.4
57.5°	4268.4	4276.7	4642.3	5503.1	6712.8	8164.8	9898.9	10540.3	11160.8	10864.1	8522.1
60°	3253.0	3219.5	3547.6	4293.4	5534.4	7358.4	9575.1	10661.5	11656.0	11484.7	9105.0
62.5°	2093.4	2041.2	2398.5	3125.5	4322.7	6015.0	8927.4	10663.6	12429.0	12364.2	10080.7
65°	1036.3	1000.8	1307.9	1915.9	2991.8	4600.5	8003.9	10623.9	13373.3	13415.1	11031.3
67.5°	547.4	559.9	658.1	971.5	1725.7	3250.9	6612.5	10158.0	13856.0	14090.0	11261.1
68°	503.5	507.7	585.0	808.5	1498.0	3014.8	6282.4	10022.2	13893.6	14181.9	11133.7
70°	409.5	415.8	442.9	507.7	810.6	1961.8	4847.1	8868.9	13327.4	13590.6	10078.6
72.5°	325.9	344.7	361.4	388.6	476.4	1030.0	3014.8	6911.3	11010.4	11039.6	7845.2
75°	248.6	263.2	296.7	319.7	371.9	566.2	1435.3	4214.0	7224.7	6869.5	4621.4
77.5°	192.2	204.7	219.4	250.7	311.3	382.3	438.7	1788.4	3069.1	2525.9	1305.8
80°	114.9	123.3	171.3	196.4	271.6	259.1	173.4	497.2	622.6	491.0	238.2
82.5°	66.9	73.1	98.2	150.4	190.1	140.0	102.4	154.6	152.5	133.7	79.4
85°	2.1	4.2	54.3	89.8	66.9	37.6	62.7	64.8	54.3	50.1	35.5
87.5°	0.0	2.1	14.6	12.5	14.6	8.4	12.5	16.7	20.9	18.8	14.6
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°	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	1466.7	1420.7	1318.3	1241.0	1157.4	1107.3	1057.2	1025.8	1009.1	998.7	1007.0
5°	1504.3	1408.2	1243.1	1096.9	1000.8	936.0	871.2	837.8	806.5	789.7	800.2
7.5°	1587.8	1443.7	1170.0	1011.2	898.4	798.1	716.6	651.8	614.2	580.8	587.1
10°	1690.2	1464.6	1172.1	961.1	798.1	639.3	524.4	442.9	397.0	367.7	365.6
12.5°	1794.7	1546.1	1180.4	910.9	674.8	480.5	344.7	284.1	257.0	242.4	242.4
15°	1953.5	1619.2	1159.5	819.0	511.9	313.4	236.1	215.2	204.7	192.2	194.3
17.5°	2091.3	1736.2	1149.1	681.1	351.0	225.6	196.4	173.4	163.0	150.4	150.4
20°	2277.3	1809.3	1092.7	526.5	242.4	188.0	158.8	137.9	121.2	110.7	112.8
22.5°	2446.5	1865.7	992.4	359.4	185.9	148.3	117.0	96.1	81.5	68.9	71.0
25°	2630.4	1922.1	846.1	221.5	131.6	91.9	62.7	46.0	31.3	23.0	23.0
27.5°	2762.0	1938.8	656.0	131.6	79.4	41.8	14.6	2.1	0.0	0.0	0.0
30°	2895.7	1945.1	453.4	71.0	31.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3048.2	1943.0	284.1	37.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	3165.2	1907.5	135.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3342.8	1855.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3545.5	1761.2	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3727.2	1665.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3934.1	1546.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4297.6	1495.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4771.9	1456.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5064.4	1339.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5216.9	1218.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5442.5	1159.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5776.8	1163.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6299.1	1222.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6587.4	1163.7	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6343.0	931.8	39.7	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	6132.0	856.6	39.7	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	5068.5	557.8	37.6	10.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3691.7	309.2	31.3	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2147.8	154.6	23.0	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	559.9	77.3	18.8	10.4	6.3	2.1	0.0	0.0	0.0	0.0	0.0
80°	110.7	50.1	16.7	12.5	8.4	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	52.2	35.5	16.7	12.5	10.4	6.3	2.1	0.0	0.0	0.0	0.0
85°	27.2	16.7	16.7	12.5	12.5	8.4	4.2	0.0	0.0	0.0	0.0
87.5°	12.5	6.3	6.3	6.3	6.3	4.2	2.1	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)