

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: P482034

Luminaire Tested: **IFLD-S-SA6C-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482034  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

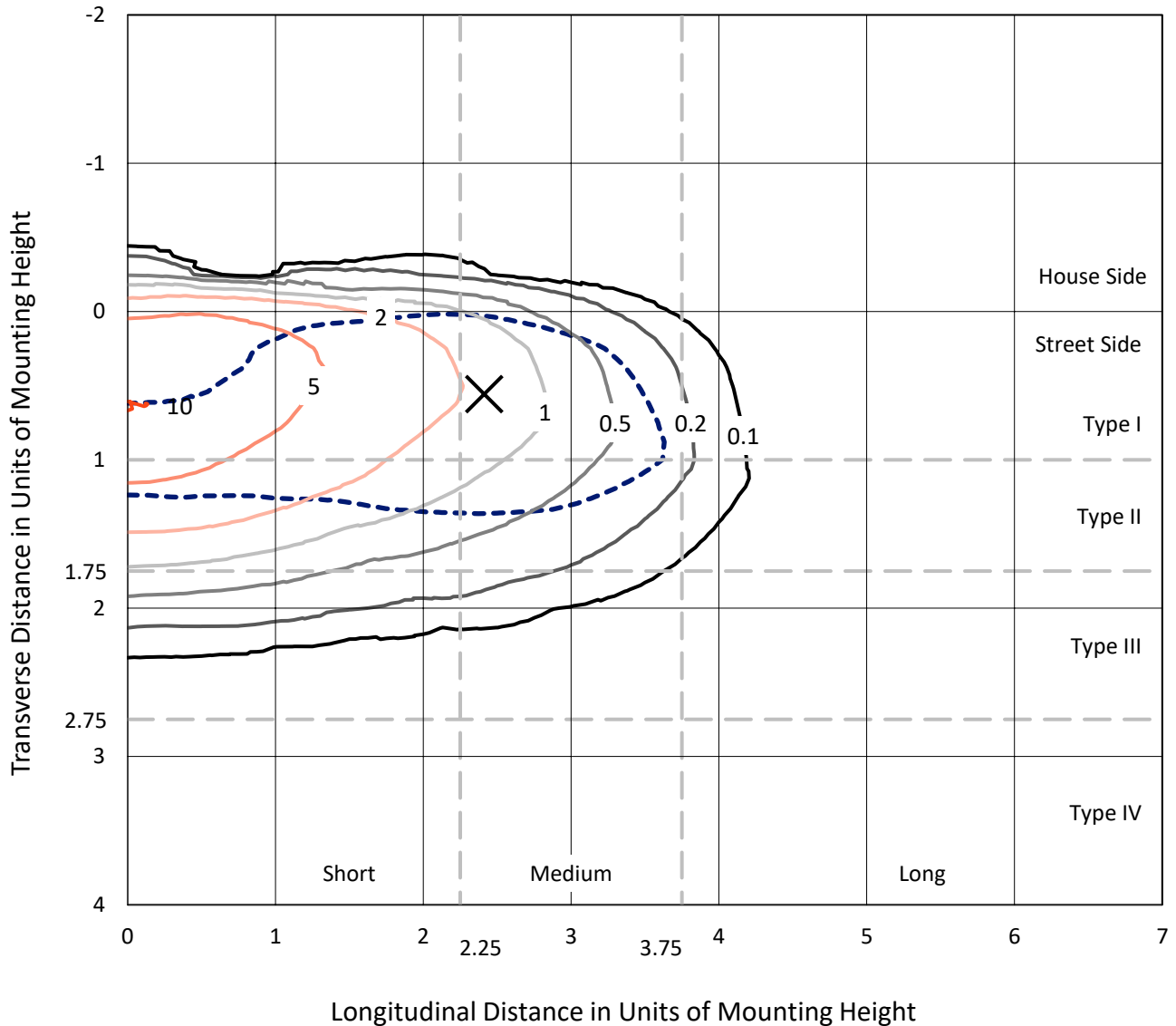
Lumens per Lamp: N/A  
Luminaire Lumens: 32220.8 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 321.5  
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

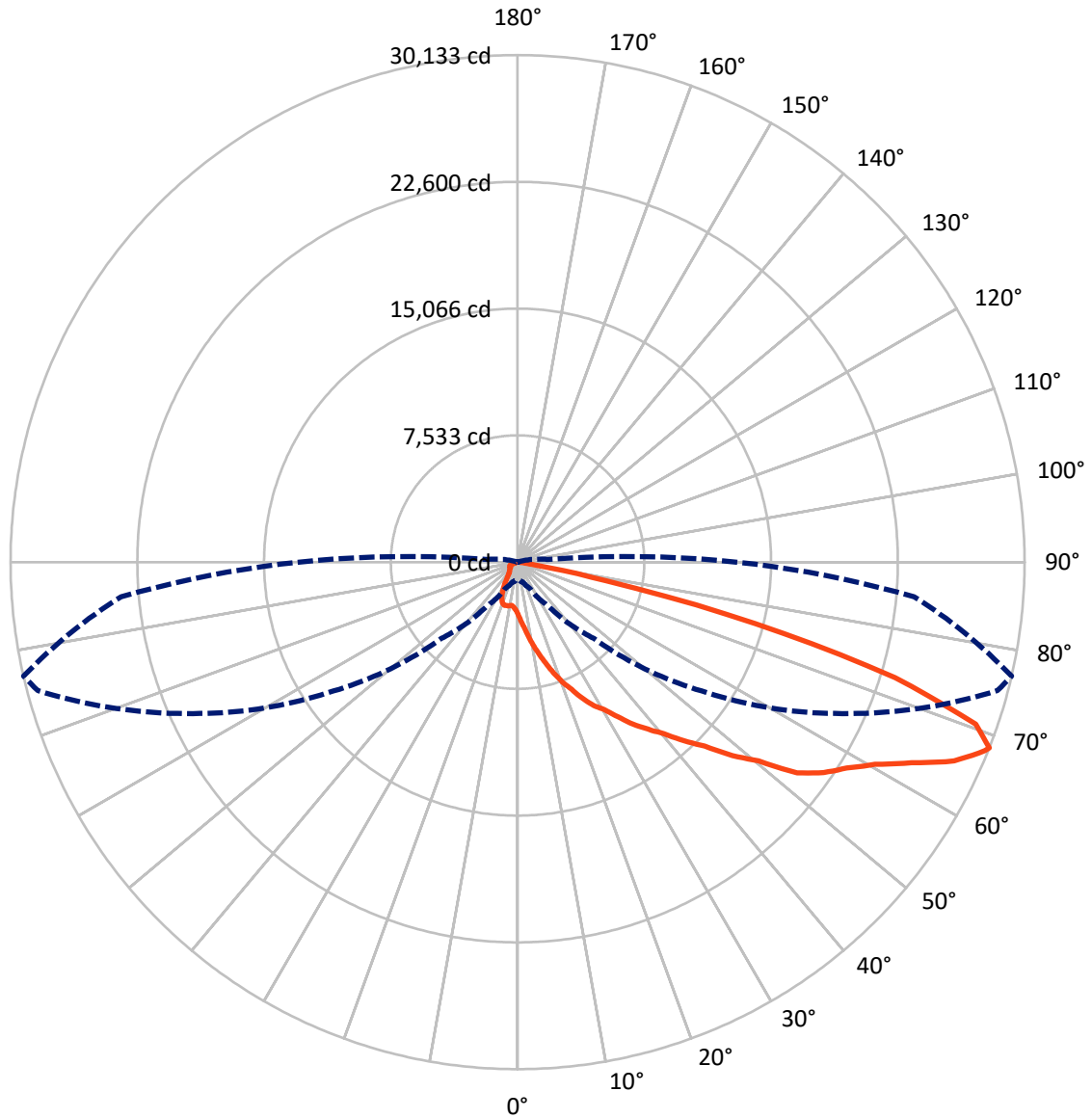
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	1461.2	0.0	1461.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	30759.6	0.0	30759.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	32220.8	0.0	32220.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.4	1.1
10°-20°	1329.3	4.1
20°-30°	2576.2	8.0
30°-40°	4491.2	13.9
40°-50°	6577.8	20.4
50°-60°	7727.9	24.0
60°-70°	6525.5	20.3
70°-80°	2529.5	7.9
80°-90°	102.9	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°	32220.8	100.0
0°-180°	32220.8	100.0

**Coefficient of Utilization**



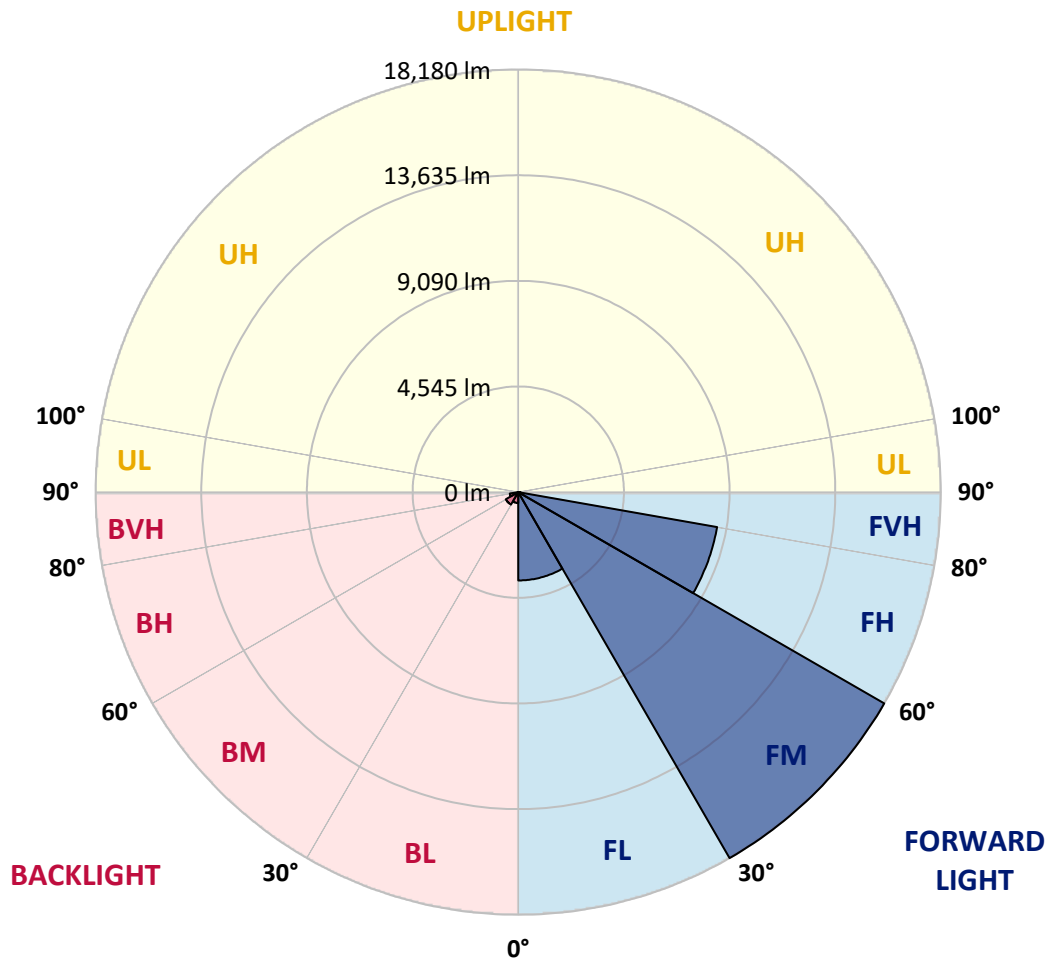
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3799.1	11.8			
FM (30°-60°)	18179.5	56.4			
FH (60°-80°)	8686.1	27.0			G4/12000
FVH (80°-90°)	94.9	0.3			G1/100
BL (0°-30°)	466.9	1.4	B1/500		
BM (30°-60°)	617.4	1.9	B1/1000		
BH (60°-80°)	368.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.0	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2
2.5°	4687.7	4598.9	4505.7	4479.1	4305.9	4110.6	3928.6	3751.1	3453.6	3458.1	3253.9
5°	6041.6	5930.7	5855.2	5837.4	5566.7	5229.3	4954.1	4452.4	3959.7	3848.7	3475.8
7.5°	7155.9	7120.4	7009.4	6916.2	6716.4	6303.6	5979.5	5260.4	4510.1	4385.9	3746.6
10°	7830.6	7883.9	7932.7	7812.9	7657.5	7360.1	6916.2	6139.3	5136.1	4980.7	4097.3
12.5°	8549.7	8461.0	8492.0	8589.7	8385.5	8318.9	7768.5	7044.9	5868.5	5571.1	4541.2
15°	8736.2	8771.7	8847.2	9131.3	9268.9	9078.0	8603.0	7777.3	6627.6	6214.8	4954.1
17.5°	8860.5	8842.7	8936.0	9362.1	9570.7	9752.8	9455.3	8594.1	7289.0	6920.6	5469.0
20°	9015.9	8918.2	9122.4	9393.2	9877.0	10258.8	10245.5	9415.4	7981.5	7590.9	5979.5
22.5°	9592.9	9517.5	9681.7	9708.4	10045.7	10578.4	10707.2	10085.7	8691.8	8212.4	6529.9
25°	10658.3	10795.9	10600.6	10431.9	10534.0	10884.7	10977.9	10680.5	9406.5	8967.0	7080.4
27.5°	12216.5	12198.7	11812.5	11595.0	11350.8	11306.4	11373.0	11235.4	9970.3	9655.1	7533.2
30°	13890.0	13743.5	13388.4	12864.6	12327.4	11994.5	11901.3	11759.2	10631.7	10174.5	7981.5
32.5°	15221.8	15301.7	14906.6	14222.9	13330.7	12882.3	12434.0	12278.6	11359.7	10955.8	8496.5
35°	16446.9	16340.4	16025.2	15448.1	14649.1	13925.5	13224.1	12891.2	12234.2	11834.7	9064.7
37.5°	17352.5	17485.7	16886.4	16336.0	15541.4	14942.1	14254.0	13526.0	13135.4	12602.7	9757.2
40°	18209.3	18000.6	17596.7	17090.6	16353.7	15896.5	15443.7	14307.3	14094.2	13406.1	10538.5
42.5°	18058.3	18071.7	17849.7	17441.3	16908.6	16646.7	16491.3	15257.3	14964.3	14524.8	11302.0
45°	17441.3	17494.6	17570.0	17370.3	17414.7	17152.8	17570.0	16349.3	16060.7	15594.6	12181.0
47.5°	16762.1	16850.9	16833.2	17197.2	17610.0	17698.8	18742.0	17561.2	17436.9	17179.4	13397.3
50°	15634.6	15670.1	16011.9	16673.3	17237.1	18164.9	19620.9	18884.0	19074.9	18568.8	14844.4
52.5°	13708.0	13836.7	14715.7	15661.2	16797.6	18400.2	20215.8	20850.6	21334.4	20815.0	16233.9
55°	11270.9	11448.5	12314.1	14085.3	15750.0	18045.0	20757.3	21889.3	22870.4	22084.6	17077.3
57.5°	9069.1	9086.9	9863.7	11692.6	14262.9	17348.1	21032.6	22395.4	23713.8	23083.4	18107.2
60°	6911.7	6840.7	7537.6	9122.4	11759.2	15634.6	20344.5	22652.8	24765.9	24401.9	19345.7
62.5°	4448.0	4337.0	5096.1	6640.9	9184.5	12780.2	18968.4	22657.3	26408.3	26270.7	21418.8
65°	2201.8	2126.3	2778.9	4070.7	6356.8	9774.9	17006.3	22572.9	28414.8	28503.6	23438.6
67.5°	1163.1	1189.7	1398.3	2064.2	3666.7	6907.3	14049.8	21583.0	29440.3	29937.4	23926.9
68°	1069.8	1078.7	1243.0	1717.9	3182.9	6405.7	13348.4	21294.5	29520.2	30132.8	23656.1
70°	870.1	883.4	941.1	1078.7	1722.4	4168.3	10298.8	18844.1	28317.2	28876.5	21414.3
72.5°	692.5	732.5	768.0	825.7	1012.1	2188.5	6405.7	14684.6	23394.2	23456.3	16668.9
75°	528.3	559.3	630.4	679.2	790.2	1203.0	3049.7	8953.7	15350.5	14595.8	9819.3
77.5°	408.4	435.0	466.1	532.7	661.4	812.4	932.2	3799.9	6521.1	5366.9	2774.5
80°	244.2	261.9	364.0	417.3	577.1	550.5	368.4	1056.5	1322.9	1043.2	506.1
82.5°	142.1	155.4	208.6	319.6	404.0	297.4	217.5	328.5	324.1	284.1	168.7
85°	4.4	8.9	115.4	190.9	142.1	79.9	133.2	137.6	115.4	106.5	75.5
87.5°	0.0	4.4	31.1	26.6	31.1	17.8	26.6	35.5	44.4	40.0	31.1
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°	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2	3085.2
2.5°	3116.3	3018.6	2801.1	2636.8	2459.3	2352.7	2246.2	2179.6	2144.1	2121.9	2139.7
5°	3196.2	2992.0	2641.3	2330.5	2126.3	1988.7	1851.1	1780.1	1713.5	1678.0	1700.2
7.5°	3373.7	3067.4	2485.9	2148.5	1908.8	1695.7	1522.6	1385.0	1305.1	1234.1	1247.4
10°	3591.2	3111.8	2490.3	2042.0	1695.7	1358.4	1114.2	941.1	843.4	781.3	776.8
12.5°	3813.2	3285.0	2508.1	1935.5	1433.8	1021.0	732.5	603.7	546.0	514.9	514.9
15°	4150.6	3440.3	2463.7	1740.1	1087.6	665.9	501.6	457.2	435.0	408.4	412.8
17.5°	4443.6	3688.9	2441.5	1447.2	745.8	479.4	417.3	368.4	346.3	319.6	319.6
20°	4838.6	3844.3	2321.7	1118.7	514.9	399.5	337.4	293.0	257.5	235.3	239.7
22.5°	5198.2	3964.1	2108.6	763.5	395.1	315.2	248.6	204.2	173.1	146.5	150.9
25°	5588.9	4084.0	1797.8	470.5	279.7	195.3	133.2	97.7	66.6	48.8	48.8
27.5°	5868.5	4119.5	1393.9	279.7	168.7	88.8	31.1	4.4	0.0	0.0	0.0
30°	6152.6	4132.8	963.3	150.9	66.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6476.7	4128.4	603.7	79.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	6725.3	4052.9	288.5	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7102.6	3941.9	88.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7533.2	3742.2	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7919.4	3538.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8358.9	3285.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9131.3	3178.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10139.0	3094.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10760.4	2845.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11084.5	2588.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11563.9	2463.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12274.2	2472.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13384.0	2596.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13996.6	2472.6	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13477.2	1979.8	84.3	22.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	13028.8	1820.0	84.3	22.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10769.3	1185.2	79.9	22.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7843.9	657.0	66.6	17.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	4563.4	328.5	48.8	17.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1189.7	164.2	40.0	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
80°	235.3	106.5	35.5	26.6	17.8	8.9	0.0	0.0	0.0	0.0	0.0
82.5°	111.0	75.5	35.5	26.6	22.2	13.3	4.4	0.0	0.0	0.0	0.0
85°	57.7	35.5	35.5	26.6	26.6	17.8	8.9	0.0	0.0	0.0	0.0
87.5°	26.6	13.3	13.3	13.3	13.3	8.9	4.4	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)