

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: P481972

Luminaire Tested: **IFLD-L-SA8D-727-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481972  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-727-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

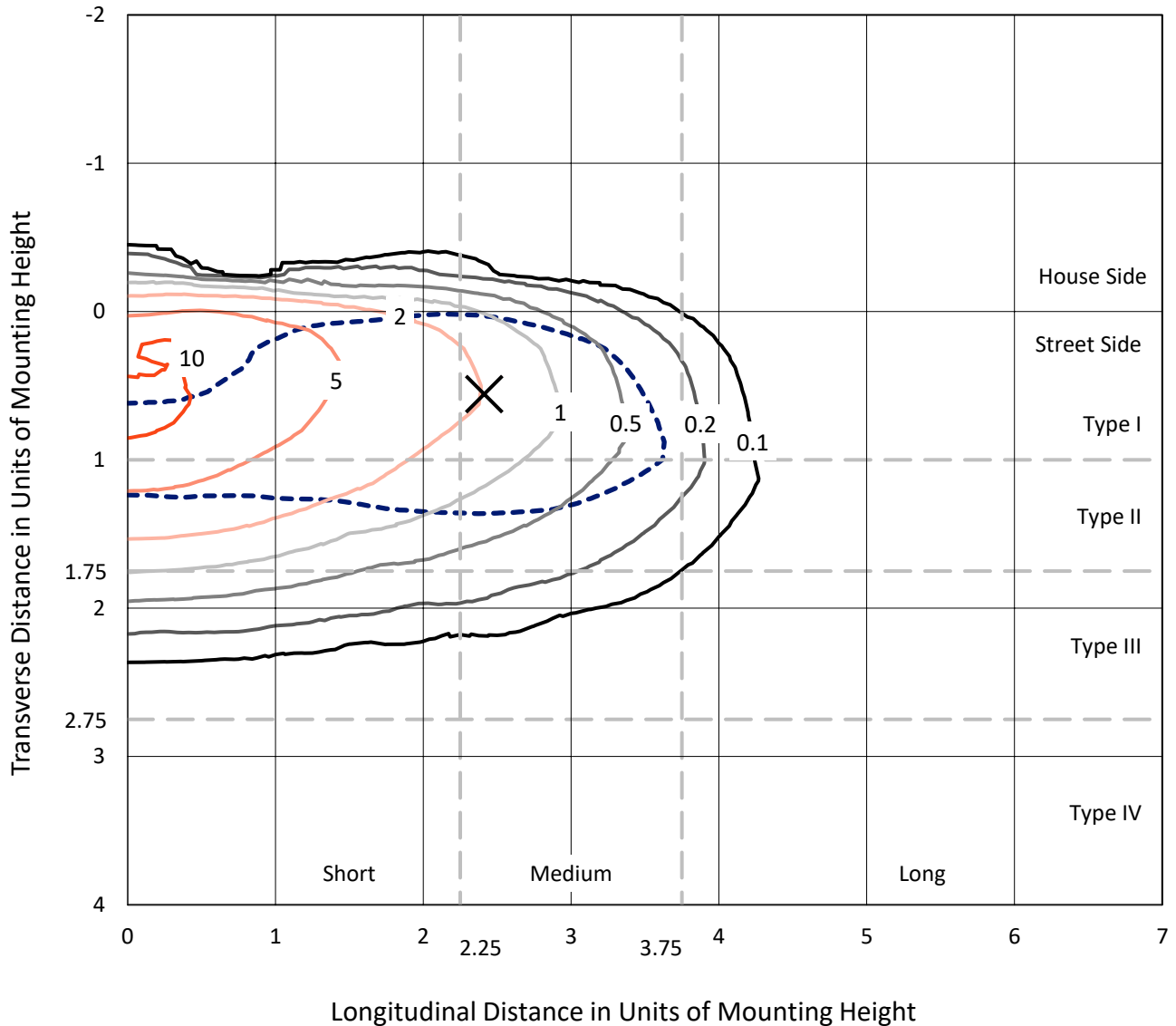
Lumens per Lamp: N/A  
Luminaire Lumens: 36654.4 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3  
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

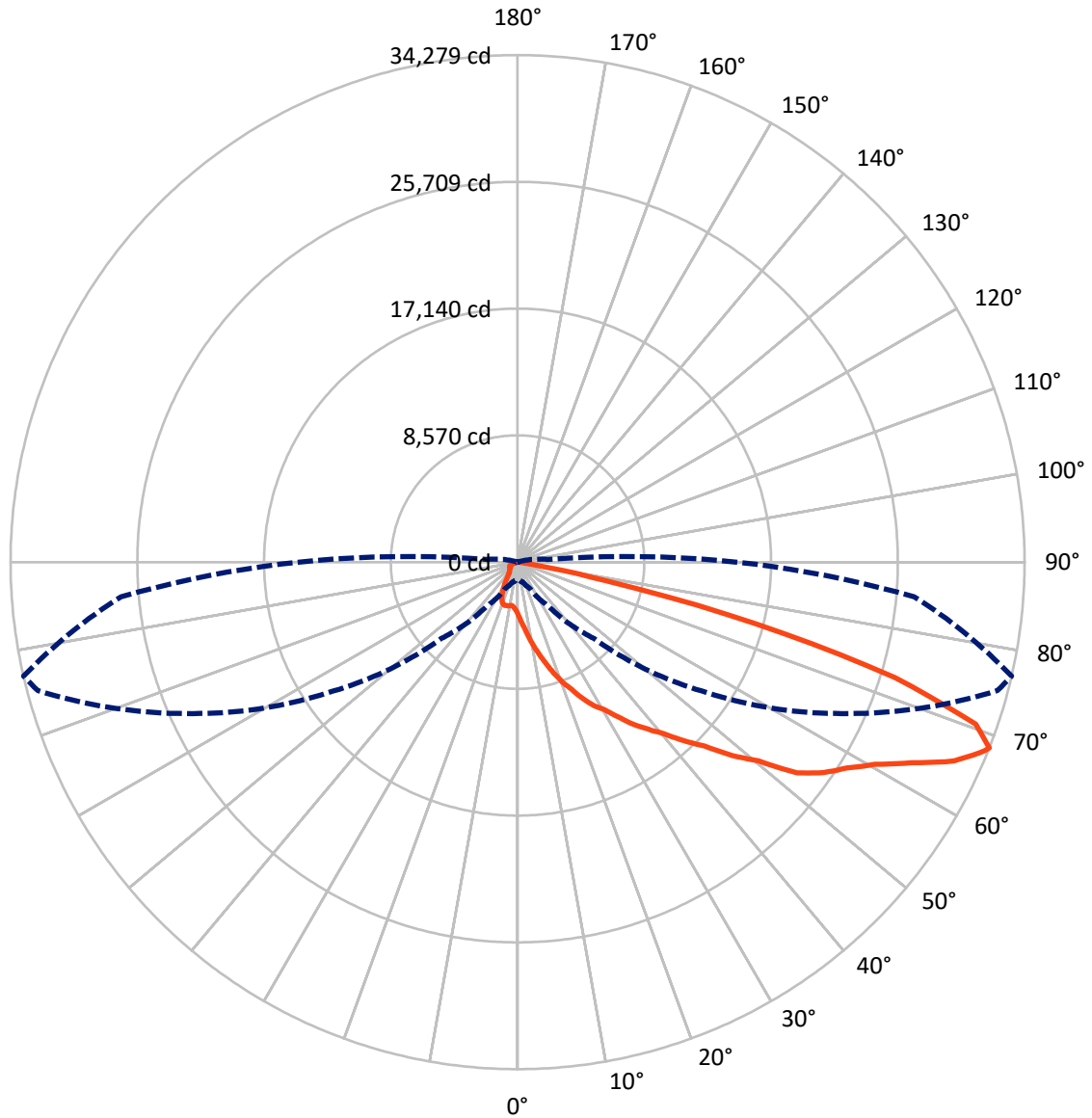
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 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	1662.2	0.0	1662.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	34992.1	0.0	34992.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	36654.4	0.0	36654.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.0	1.1
10°-20°	1512.2	4.1
20°-30°	2930.7	8.0
30°-40°	5109.2	13.9
40°-50°	7482.9	20.4
50°-60°	8791.3	24.0
60°-70°	7423.5	20.3
70°-80°	2877.5	7.9
80°-90°	117.0	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°	36654.4	100.0
0°-180°	36654.4	100.0

**Coefficient of Utilization**



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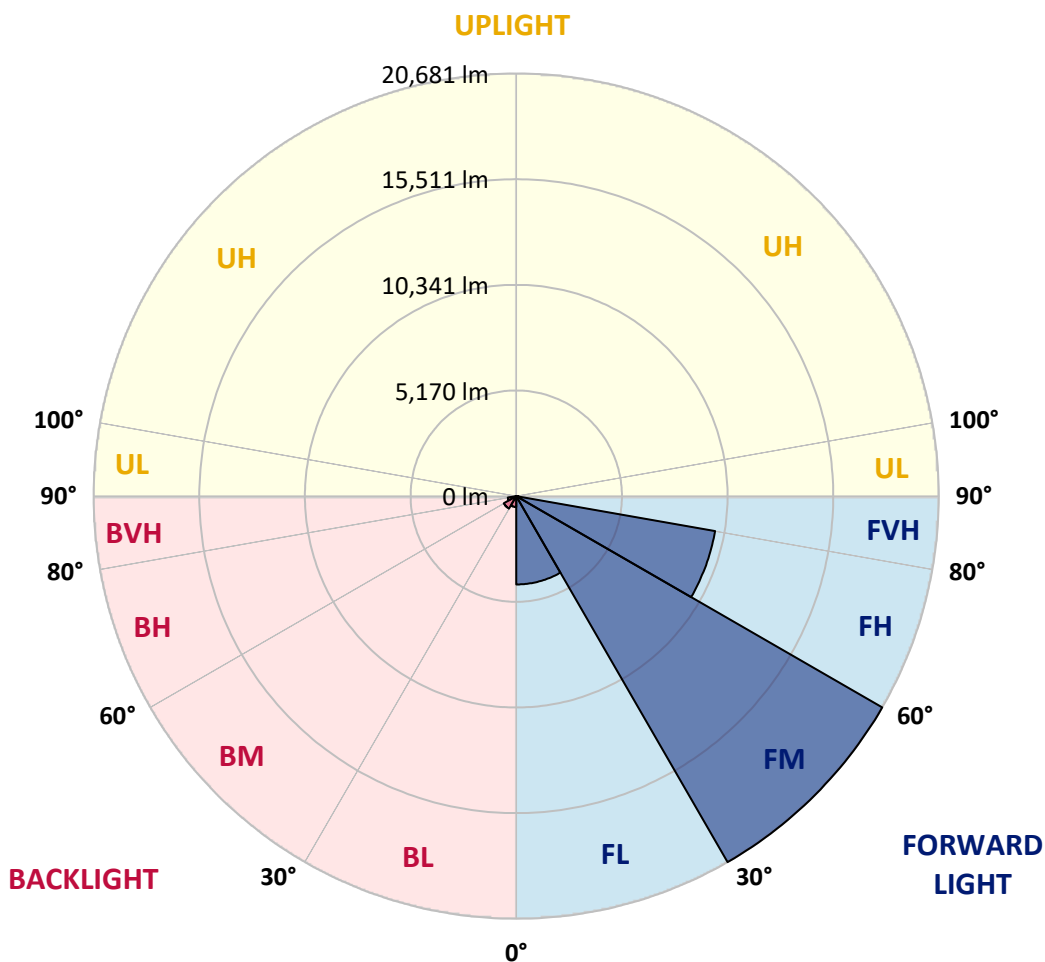
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4321.9	11.8			
FM (30°-60°)	20681.1	56.4			
FH (60°-80°)	9881.3	27.0			G4/12000
FVH (80°-90°)	107.9	0.3			G2/225
BL (0°-30°)	531.1	1.4	B2/1000		
BM (30°-60°)	702.4	1.9	B1/1000		
BH (60°-80°)	419.7	1.1	B1/500		G1/500
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7
2.5°	5332.7	5231.7	5125.7	5095.4	4898.4	4676.2	4469.2	4267.2	3928.9	3933.9	3701.6
5°	6873.0	6746.7	6660.9	6640.7	6332.6	5948.8	5635.7	5065.1	4504.6	4378.3	3954.1
7.5°	8140.5	8100.1	7973.9	7867.8	7640.6	7170.9	6802.3	5984.2	5130.7	4989.3	4262.2
10°	8908.1	8968.7	9024.3	8887.9	8711.2	8372.8	7867.8	6984.1	5842.8	5666.0	4661.1
12.5°	9726.2	9625.2	9660.5	9771.6	9539.3	9463.6	8837.4	8014.3	6676.0	6337.7	5166.1
15°	9938.3	9978.7	10064.5	10387.7	10544.3	10327.1	9786.8	8847.5	7539.6	7069.9	5635.7
17.5°	10079.7	10059.5	10165.5	10650.3	10887.7	11094.7	10756.4	9776.7	8292.0	7872.9	6221.5
20°	10256.4	10145.3	10377.6	10685.7	11236.1	11670.4	11655.3	10710.9	9079.8	8635.4	6802.3
22.5°	10912.9	10827.1	11013.9	11044.2	11428.0	12034.0	12180.5	11473.5	9887.8	9342.4	7428.5
25°	12124.9	12281.5	12059.3	11867.4	11983.5	12382.5	12488.5	12150.2	10700.8	10200.9	8054.7
27.5°	13897.5	13877.3	13437.9	13190.5	12912.7	12862.2	12938.0	12781.4	11342.2	10983.6	8569.8
30°	15801.3	15634.6	15230.6	14634.7	14023.7	13645.0	13538.9	13377.3	12094.6	11574.5	9079.8
32.5°	17316.3	17407.2	16957.7	16180.0	15165.0	14654.9	14144.9	13968.1	12922.8	12463.3	9665.6
35°	18710.0	18588.8	18230.3	17573.8	16664.8	15841.7	15043.8	14665.0	13917.6	13463.2	10312.0
37.5°	19740.2	19891.7	19210.0	18583.8	17679.9	16998.1	16215.4	15387.2	14942.8	14336.8	11099.8
40°	20714.9	20477.5	20018.0	19442.3	18604.0	18083.9	17568.8	16276.0	16033.6	15250.8	11988.6
42.5°	20543.2	20558.3	20305.8	19841.2	19235.2	18937.3	18760.5	17356.7	17023.4	16523.4	12857.2
45°	19841.2	19901.8	19987.7	19760.4	19810.9	19513.0	19987.7	18598.9	18270.7	17740.5	13857.1
47.5°	19068.6	19169.6	19149.4	19563.5	20033.1	20134.1	21320.9	19977.6	19836.2	19543.3	15240.7
50°	17785.9	17826.3	18215.2	18967.6	19608.9	20664.4	22320.8	21482.5	21699.6	21123.9	16887.0
52.5°	15594.2	15740.7	16740.6	17816.2	19109.0	20932.0	22997.5	23719.6	24270.0	23679.2	18467.7
55°	12821.8	13023.8	14008.5	16023.5	17917.2	20528.0	23613.5	24901.3	26017.3	25123.5	19427.1
57.5°	10317.0	10337.2	11221.0	13301.6	16225.5	19735.2	23926.6	25477.0	26976.8	26259.7	20598.7
60°	7862.8	7782.0	8574.8	10377.6	13377.3	17785.9	23143.9	25769.9	28173.6	27759.6	22007.7
62.5°	5060.0	4933.8	5797.3	7554.7	10448.3	14538.8	21578.4	25774.9	30042.1	29885.6	24366.0
65°	2504.8	2418.9	3161.3	4630.8	7231.5	11120.0	19346.3	25679.0	32324.7	32425.7	26663.7
67.5°	1323.1	1353.4	1590.7	2348.2	4171.3	7857.7	15983.1	24552.8	33491.2	34056.8	27219.2
68°	1217.0	1227.1	1414.0	1954.3	3620.8	7287.1	15185.2	24224.6	33582.1	34279.0	26911.2
70°	989.8	1004.9	1070.6	1227.1	1959.4	4741.9	11715.9	21437.0	32213.6	32849.9	24360.9
72.5°	787.8	833.2	873.6	939.3	1151.4	2489.6	7287.1	16705.2	26613.2	26683.9	18962.5
75°	600.9	636.3	717.1	772.6	898.9	1368.5	3469.3	10185.7	17462.7	16604.2	11170.5
77.5°	464.6	494.9	530.2	606.0	752.4	924.1	1060.5	4322.8	7418.4	6105.4	3156.2
80°	277.7	297.9	414.1	474.7	656.5	626.2	419.1	1201.9	1504.9	1186.7	575.7
82.5°	161.6	176.7	237.3	363.6	459.5	338.3	247.4	373.7	368.6	323.2	191.9
85°	5.0	10.1	131.3	217.1	161.6	90.9	151.5	156.5	131.3	121.2	85.8
87.5°	0.0	5.0	35.3	30.3	35.3	20.2	30.3	40.4	50.5	45.4	35.3
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°	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7	3509.7
2.5°	3545.1	3434.0	3186.5	2999.7	2797.7	2676.5	2555.3	2479.5	2439.1	2413.9	2434.1
5°	3636.0	3403.7	3004.7	2651.2	2418.9	2262.4	2105.8	2025.0	1949.3	1908.9	1934.1
7.5°	3838.0	3489.5	2828.0	2444.2	2171.5	1929.1	1732.1	1575.6	1484.7	1403.9	1419.0
10°	4085.4	3540.0	2833.0	2323.0	1929.1	1545.3	1267.5	1070.6	959.5	888.8	883.7
12.5°	4337.9	3737.0	2853.2	2201.8	1631.1	1161.5	833.2	686.8	621.1	585.8	585.8
15°	4721.7	3913.7	2802.7	1979.6	1237.2	757.5	570.6	520.1	494.9	464.6	469.6
17.5°	5055.0	4196.5	2777.5	1646.3	848.4	545.4	474.7	419.1	393.9	363.6	363.6
20°	5504.4	4373.3	2641.1	1272.6	585.8	454.5	383.8	333.3	292.9	267.6	272.7
22.5°	5913.5	4509.6	2398.7	868.6	449.4	358.5	282.8	232.3	196.9	166.6	171.7
25°	6357.9	4645.9	2045.2	535.3	318.1	222.2	151.5	111.1	75.7	55.5	55.5
27.5°	6676.0	4686.3	1585.7	318.1	191.9	101.0	35.3	5.0	0.0	0.0	0.0
30°	6999.2	4701.5	1095.8	171.7	75.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7367.9	4696.4	686.8	90.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7650.7	4610.6	328.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8079.9	4484.4	101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8569.8	4257.1	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9009.1	4024.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9509.0	3737.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10387.7	3615.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11534.1	3519.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12241.1	3237.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12609.7	2944.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13155.1	2802.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13963.1	2812.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15225.6	2954.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15922.5	2812.8	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15331.6	2252.3	95.9	25.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	14821.6	2070.5	95.9	25.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12251.2	1348.3	90.9	25.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8923.3	747.4	75.7	20.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	5191.3	373.7	55.5	20.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1353.4	186.8	45.4	25.2	15.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	267.6	121.2	40.4	30.3	20.2	10.1	0.0	0.0	0.0	0.0	0.0
82.5°	126.2	85.8	40.4	30.3	25.2	15.1	5.0	0.0	0.0	0.0	0.0
85°	65.6	40.4	40.4	30.3	30.3	20.2	10.1	0.0	0.0	0.0	0.0
87.5°	30.3	15.1	15.1	15.1	15.1	10.1	5.0	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)