

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: P481996

Luminaire Tested: **IFLD-S-SA6D-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481996  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-730-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

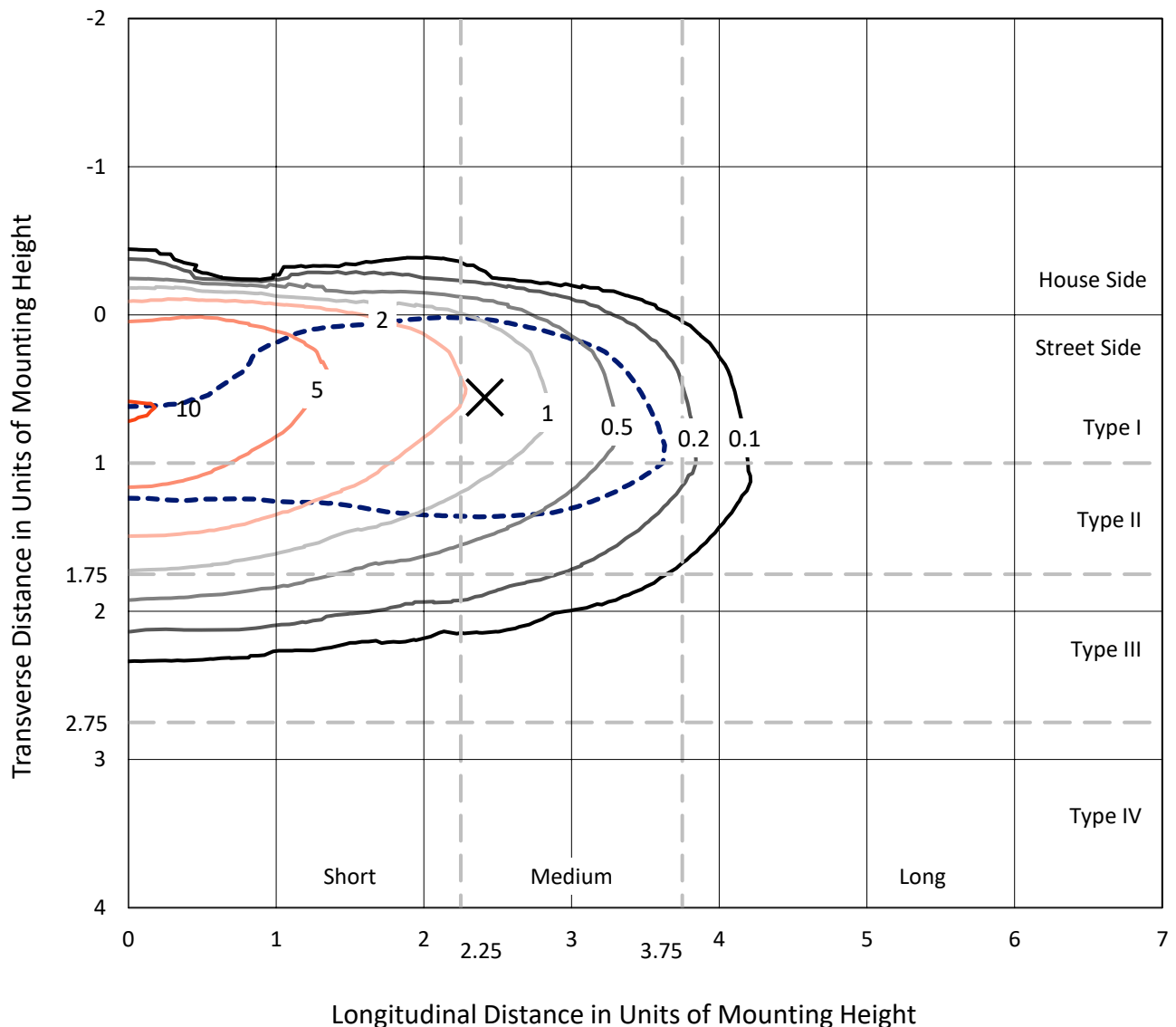
Lumens per Lamp: N/A  
Luminaire Lumens: 32733.2 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 368.2  
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

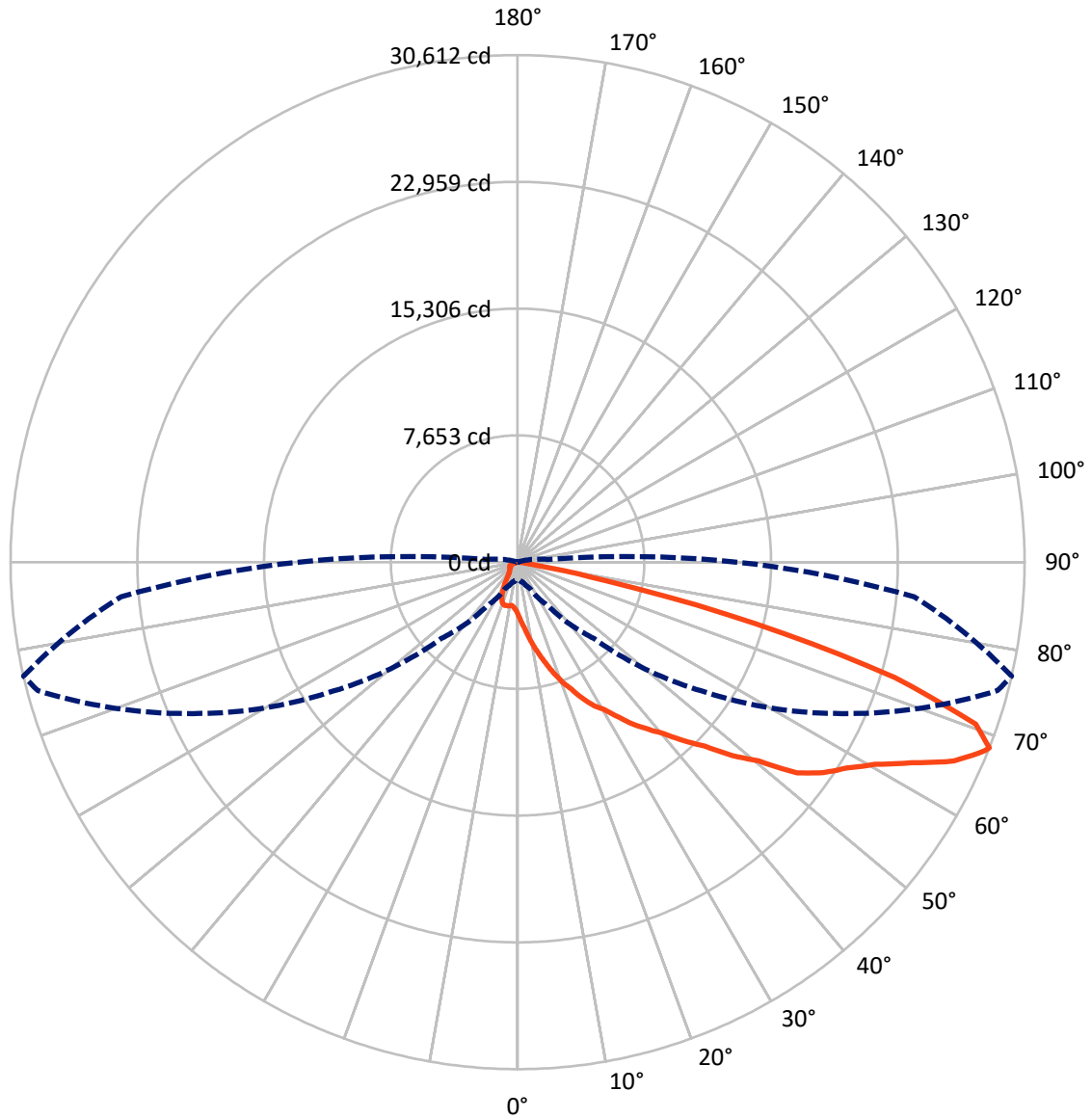
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 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	1484.4	0.0	1484.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	31248.8	0.0	31248.8
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	32733.2	0.0	32733.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.2	1.1
10°-20°	1350.4	4.1
20°-30°	2617.2	8.0
30°-40°	4562.7	13.9
40°-50°	6682.4	20.4
50°-60°	7850.8	24.0
60°-70°	6629.3	20.3
70°-80°	2569.7	7.9
80°-90°	104.5	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°	32733.2	100.0
0°-180°	32733.2	100.0

**Coefficient of Utilization**

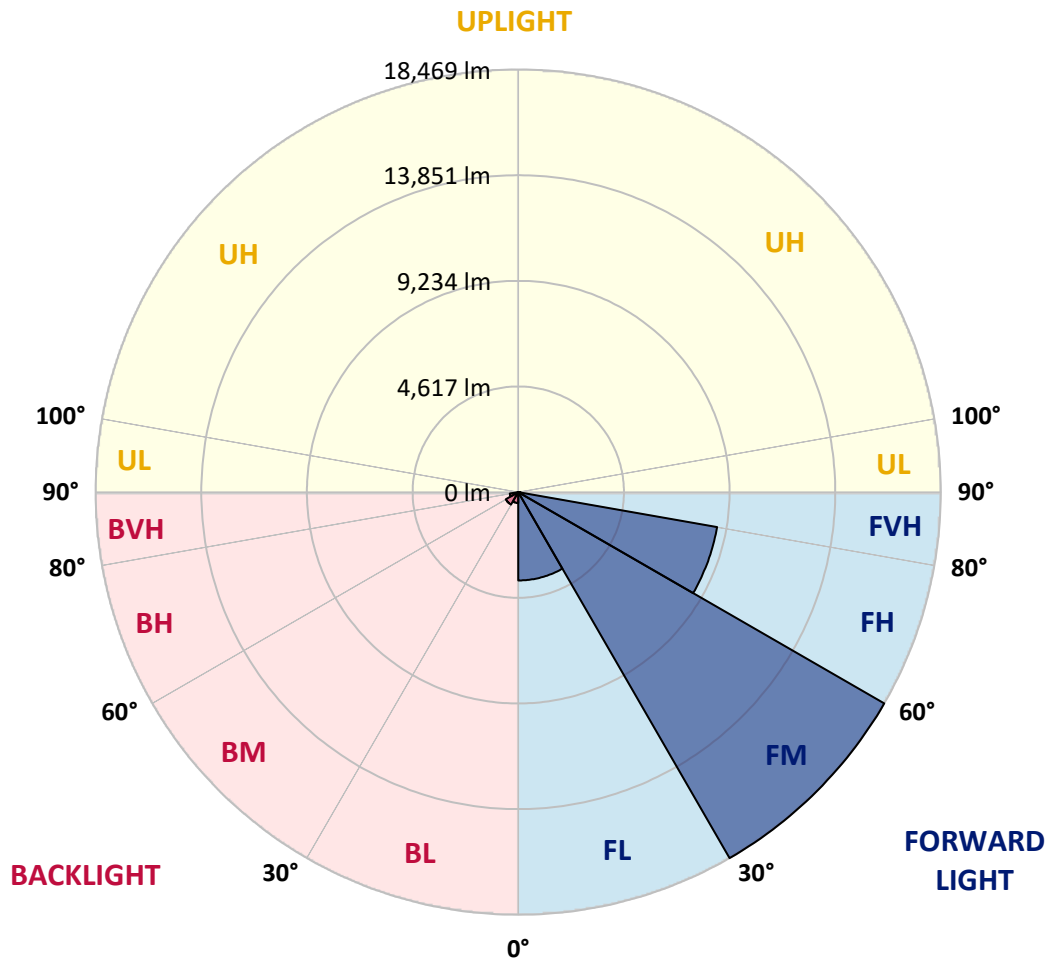


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3859.5	11.8			
FM (30°-60°)	18468.7	56.4			
FH (60°-80°)	8824.2	27.0			G4/12000
FVH (80°-90°)	96.4	0.3			G1/100
BL (0°-30°)	474.3	1.4	B1/500		
BM (30°-60°)	627.2	1.9	B1/1000		
BH (60°-80°)	374.8	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3
2.5°	4762.3	4672.1	4577.4	4550.3	4374.4	4176.0	3991.1	3810.7	3508.6	3513.1	3305.6
5°	6137.7	6025.0	5948.3	5930.3	5655.2	5312.4	5032.8	4523.2	4022.7	3909.9	3531.1
7.5°	7269.7	7233.6	7120.8	7026.1	6823.2	6403.8	6074.6	5344.0	4581.9	4455.6	3806.2
10°	7955.1	8009.3	8058.9	7937.1	7779.3	7477.1	7026.1	6236.9	5217.7	5059.9	4162.5
12.5°	8685.7	8595.5	8627.1	8726.3	8518.9	8451.2	7892.0	7156.9	5961.8	5659.7	4613.4
15°	8875.1	8911.2	8987.9	9276.5	9416.3	9222.4	8739.8	7901.0	6733.0	6313.6	5032.8
17.5°	9001.4	8983.4	9078.1	9511.0	9723.0	9907.8	9605.7	8730.8	7405.0	7030.7	5556.0
20°	9159.2	9060.0	9267.5	9542.6	10034.1	10422.0	10408.4	9565.1	8108.5	7711.6	6074.6
22.5°	9745.5	9668.8	9835.7	9862.8	10205.5	10746.7	10877.4	10246.1	8830.0	8343.0	6633.8
25°	10827.8	10967.6	10769.2	10597.8	10701.6	11057.8	11152.5	10850.4	9556.1	9109.6	7193.0
27.5°	12410.7	12392.7	12000.4	11779.4	11531.3	11486.3	11553.9	11414.1	10128.8	9808.6	7653.0
30°	14110.9	13962.1	13601.3	13069.2	12523.5	12185.3	12090.6	11946.2	10800.8	10336.3	8108.5
32.5°	15463.8	15545.0	15143.6	14449.1	13542.7	13087.2	12631.7	12473.9	11540.4	11130.0	8631.6
35°	16708.5	16600.3	16280.1	15693.8	14882.1	14147.0	13434.4	13096.2	12428.8	12022.9	9208.8
37.5°	17628.5	17763.8	17155.0	16595.8	15788.5	15179.7	14480.7	13741.1	13344.3	12803.1	9912.4
40°	18498.9	18286.9	17876.5	17362.4	16613.8	16149.3	15689.3	14534.8	14318.4	13619.3	10706.1
42.5°	18345.5	18359.1	18133.6	17718.7	17177.5	16911.4	16753.6	15499.9	15202.3	14755.8	11481.7
45°	17718.7	17772.8	17849.5	17646.5	17691.6	17425.5	17849.5	16609.3	16316.2	15842.6	12374.7
47.5°	17028.7	17118.9	17100.8	17470.6	17890.1	17980.2	19040.0	17840.4	17714.2	17452.6	13610.3
50°	15883.2	15919.3	16266.6	16938.5	17511.2	18453.8	19933.0	19184.3	19378.3	18864.1	15080.5
52.5°	13926.0	14056.8	14949.7	15910.3	17064.8	18692.8	20537.3	21182.1	21673.7	21146.1	16492.0
55°	11450.2	11630.6	12510.0	14309.3	16000.5	18332.0	21087.4	22237.4	23234.1	22435.8	17348.9
57.5°	9213.4	9231.4	10020.6	11878.6	14489.7	17624.0	21367.0	22751.5	24090.9	23450.5	18395.1
60°	7021.6	6949.5	7657.5	9267.5	11946.2	15883.2	20668.0	23013.1	25159.7	24789.9	19653.4
62.5°	4518.7	4406.0	5177.2	6746.5	9330.6	12983.5	19270.0	23017.6	26828.3	26688.5	21759.4
65°	2236.8	2160.2	2823.1	4135.4	6457.9	9930.4	17276.7	22931.9	28866.7	28956.9	23811.3
67.5°	1181.5	1208.6	1420.6	2097.0	3725.0	7017.1	14273.3	21926.2	29908.4	30413.5	24307.4
68°	1086.8	1095.9	1262.7	1745.3	3233.5	6507.5	13560.7	21633.1	29989.6	30612.0	24032.3
70°	883.9	897.4	956.1	1095.9	1749.8	4234.6	10462.5	19143.8	28767.5	29335.7	21754.9
72.5°	703.5	744.1	780.2	838.8	1028.2	2223.3	6507.5	14918.1	23766.2	23829.3	16934.0
75°	536.7	568.2	640.4	690.0	802.7	1222.1	3098.2	9096.1	15594.6	14828.0	9975.5
77.5°	414.9	442.0	473.5	541.2	671.9	825.3	947.0	3860.3	6624.8	5452.2	2818.6
80°	248.0	266.1	369.8	423.9	586.3	559.2	374.3	1073.3	1343.9	1059.8	514.1
82.5°	144.3	157.8	212.0	324.7	410.4	302.2	221.0	333.7	329.2	288.6	171.4
85°	4.5	9.0	117.3	193.9	144.3	81.2	135.3	139.8	117.3	108.2	76.7
87.5°	0.0	4.5	31.6	27.1	31.6	18.0	27.1	36.1	45.1	40.6	31.6
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°	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3
2.5°	3165.8	3066.6	2845.6	2678.8	2498.4	2390.2	2281.9	2214.3	2178.2	2155.6	2173.7
5°	3247.0	3039.5	2683.3	2367.6	2160.2	2020.4	1880.6	1808.4	1740.8	1704.7	1727.2
7.5°	3427.4	3116.2	2525.4	2182.7	1939.2	1722.7	1546.8	1407.0	1325.9	1253.7	1267.2
10°	3648.4	3161.3	2530.0	2074.5	1722.7	1380.0	1131.9	956.1	856.8	793.7	789.2
12.5°	3873.8	3337.2	2548.0	1966.2	1456.6	1037.2	744.1	613.3	554.7	523.1	523.1
15°	4216.6	3495.0	2502.9	1767.8	1104.9	676.5	509.6	464.5	442.0	414.9	419.4
17.5°	4514.2	3747.6	2480.3	1470.2	757.6	487.0	423.9	374.3	351.8	324.7	324.7
20°	4915.6	3905.4	2358.6	1136.4	523.1	405.9	342.7	297.6	261.6	239.0	243.5
22.5°	5280.9	4027.2	2142.1	775.7	401.4	320.2	252.5	207.4	175.9	148.8	153.3
25°	5677.7	4148.9	1826.4	478.0	284.1	198.4	135.3	99.2	67.6	49.6	49.6
27.5°	5961.8	4185.0	1416.1	284.1	171.4	90.2	31.6	4.5	0.0	0.0	0.0
30°	6250.5	4198.5	978.6	153.3	67.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6579.7	4194.0	613.3	81.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	6832.2	4117.4	293.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7215.5	4004.6	90.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7653.0	3801.7	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8045.3	3594.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8491.8	3337.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9276.5	3229.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10300.2	3143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10931.6	2890.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11260.8	2629.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11747.8	2502.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12469.4	2511.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13596.8	2638.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14219.1	2511.9	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13691.5	2011.3	85.7	22.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	13236.0	1849.0	85.7	22.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	10940.6	1204.1	81.2	22.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7968.7	667.4	67.6	18.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4636.0	333.7	49.6	18.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1208.6	166.9	40.6	22.5	13.5	4.5	0.0	0.0	0.0	0.0	0.0
80°	239.0	108.2	36.1	27.1	18.0	9.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.7	76.7	36.1	27.1	22.5	13.5	4.5	0.0	0.0	0.0	0.0
85°	58.6	36.1	36.1	27.1	27.1	18.0	9.0	0.0	0.0	0.0	0.0
87.5°	27.1	13.5	13.5	13.5	13.5	9.0	4.5	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)