

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: P481840

Luminaire Tested: **IFLD-S-SA6D-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481840  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

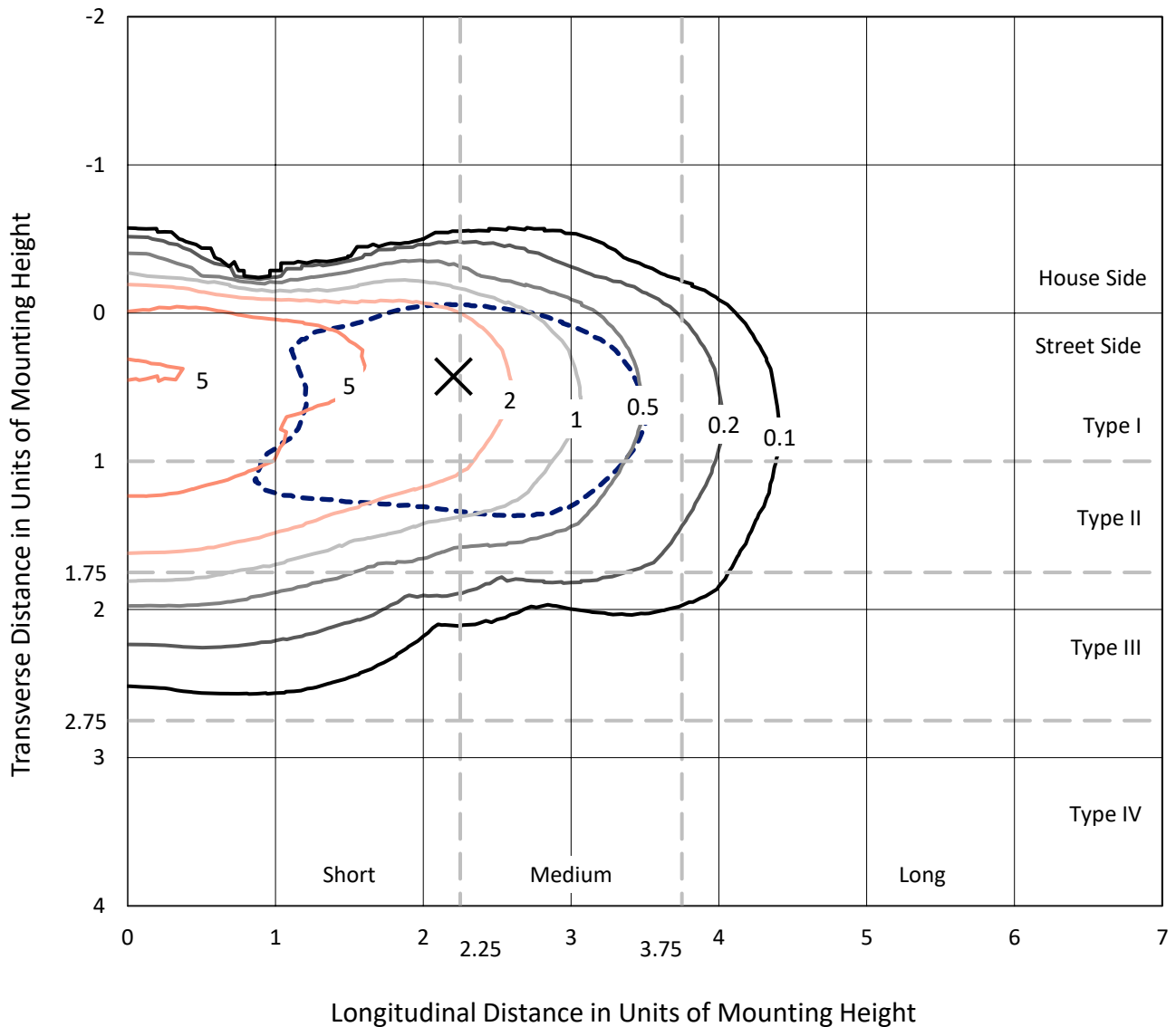
Lumens per Lamp: N/A  
Luminaire Lumens: 26163 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

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

REPORT NUMBER: P481840  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

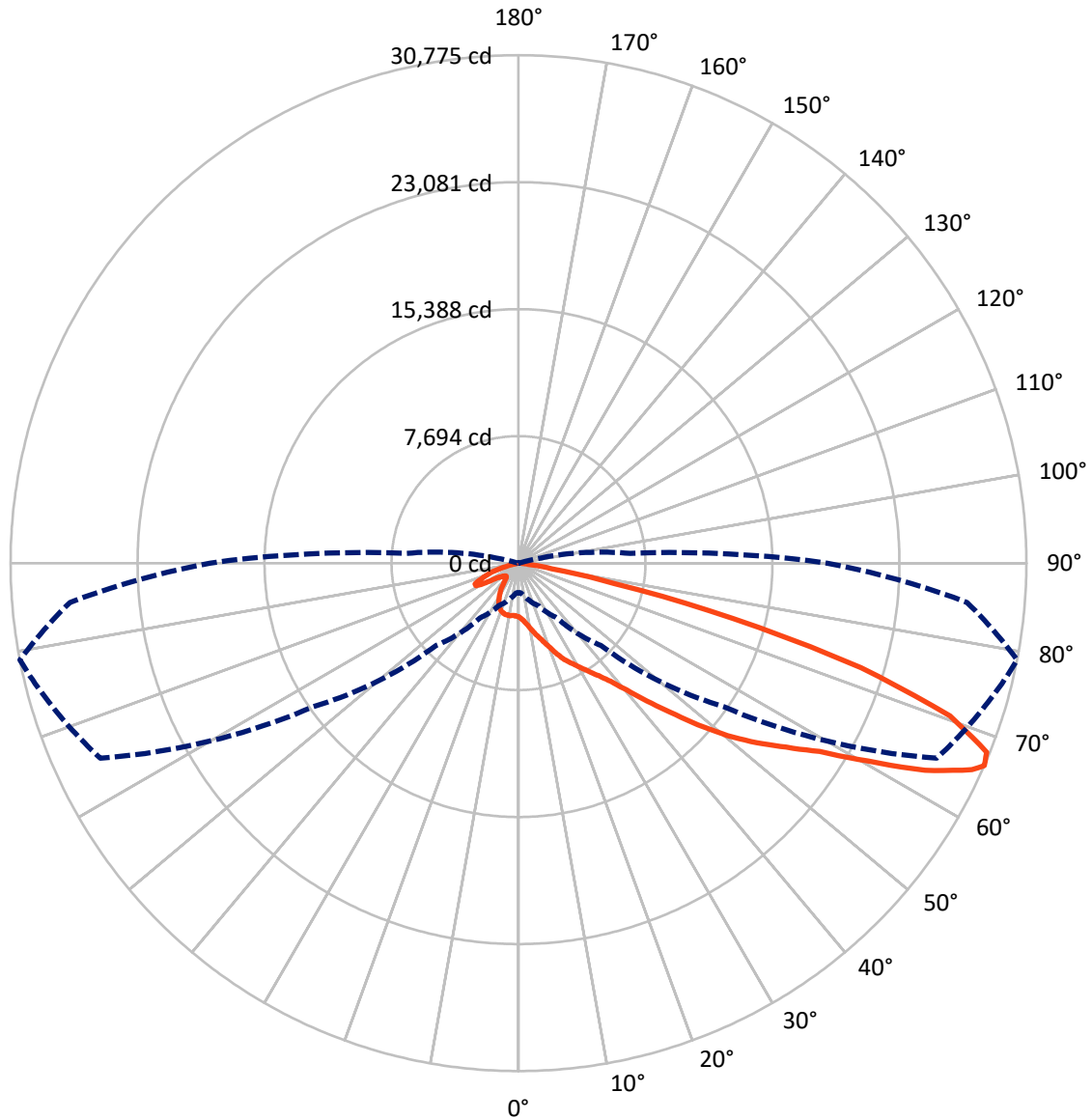
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P481840  
CATALOG NUMBER: IFLD-S-SA6D-830-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA6D-830-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1964.5	0.0	1964.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	24198.5	0.0	24198.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	26163.0	0.0	26163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.8	1.2
10°-20°	847.2	3.2
20°-30°	1407.4	5.4
30°-40°	2417.4	9.2
40°-50°	4379.4	16.7
50°-60°	6922.6	26.5
60°-70°	7044.3	26.9
70°-80°	2686.3	10.3
80°-90°	150.6	0.6
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°	26163.0	100.0
0°-180°	26163.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P481840

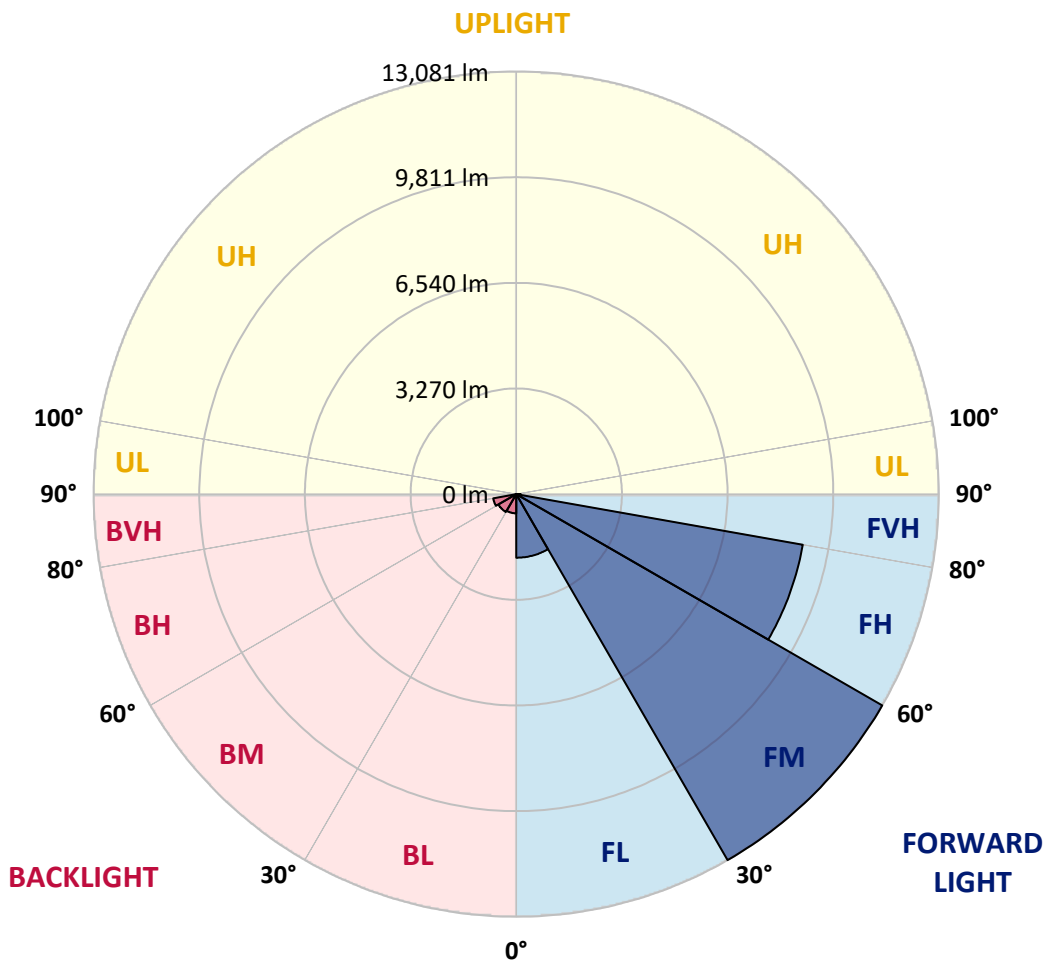
CATALOG NUMBER: IFLD-S-SA6D-830-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1968.3	7.5			
FM (30°-60°)	13080.9	50.0			
FH (60°-80°)	9006.4	34.4			G4/12000
FVH (80°-90°)	142.9	0.5			G2/225
BL (0°-30°)	594.1	2.3	B2/1000		
BM (30°-60°)	638.5	2.4	B1/1000		
BH (60°-80°)	724.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short





REPORT NUMBER: P481840

CATALOG NUMBER: IFLD-S-SA6D-830-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0
2.5°	3686.6	3682.5	3666.4	3638.2	3601.9	3589.8	3537.3	3464.7	3424.4	3380.0	3359.9
5°	3940.7	3920.5	3968.9	3948.7	3956.8	3860.0	3795.5	3743.0	3589.8	3529.3	3432.5
7.5°	3997.2	4017.3	4013.3	4045.6	4077.8	4114.1	4069.8	3993.1	3839.8	3751.1	3646.2
10°	3997.2	3989.1	4021.4	4065.7	4158.5	4239.2	4360.2	4259.3	4142.4	4037.5	3847.9
12.5°	3924.5	3912.4	3944.7	4037.5	4202.9	4368.2	4501.3	4598.1	4432.8	4348.1	4102.0
15°	3702.7	3690.6	3823.7	3989.1	4206.9	4477.1	4755.4	4912.7	4799.8	4666.7	4392.4
17.5°	3428.4	3444.6	3585.7	3860.0	4206.9	4529.6	4884.5	5227.4	5211.2	5041.8	4755.4
20°	3335.7	3347.8	3488.9	3686.6	4081.9	4565.9	5086.2	5570.2	5667.0	5465.3	5090.2
22.5°	3513.1	3501.0	3513.1	3634.1	3997.2	4533.6	5219.3	5961.4	6134.9	5977.6	5529.9
25°	4118.2	4110.1	4009.3	3823.7	3948.7	4461.0	5287.9	6219.6	6618.9	6473.7	5884.8
27.5°	5005.5	4973.2	4815.9	4428.7	4174.6	4505.4	5400.8	6469.7	7042.4	6877.0	6203.4
30°	5957.4	5880.8	5675.1	5191.1	4759.5	4670.7	5465.3	6655.2	7514.3	7304.6	6481.8
32.5°	6614.9	6715.7	6651.2	6159.1	5497.6	5053.9	5570.2	6889.1	7949.9	7812.8	6957.7
35°	7631.3	7748.3	7478.0	7042.4	6376.9	5663.0	5792.0	7078.7	8619.5	8389.6	7401.4
37.5°	8913.9	9002.7	8809.1	7982.2	7280.4	6413.2	6247.8	7474.0	9196.3	9087.4	7970.1
40°	9559.3	9986.8	9712.6	8966.4	8212.1	7461.9	7002.1	7937.8	10200.6	10111.9	8756.6
42.5°	10450.7	10664.4	10523.3	9970.7	9184.2	8583.2	7933.8	8841.3	11418.7	11418.7	9821.5
45°	11394.5	11402.6	11394.5	10942.8	10245.0	9934.4	9192.2	9974.7	12729.6	12874.8	11096.0
47.5°	12168.9	12410.9	12390.8	12120.5	11580.0	11463.1	10450.7	11265.4	14375.2	14629.3	12338.3
50°	12568.2	12838.5	12919.1	13060.3	13036.1	13282.2	11826.1	12761.8	15795.0	16420.2	13935.6
52.5°	12459.3	12479.5	12975.6	13532.2	14419.6	15109.3	13483.8	14459.9	17456.8	18073.9	15169.8
55°	11567.9	11491.3	12511.8	13149.1	14984.3	16226.6	15778.9	16577.5	18751.5	19691.3	16444.4
57.5°	9611.7	9631.9	10575.7	11870.4	14564.8	16670.3	18231.2	19344.4	20566.6	21514.4	18235.2
60°	6635.0	6610.8	7667.6	9164.0	12100.4	15843.4	19642.9	22930.2	22994.7	24337.8	21449.9
62.5°	3730.9	3739.0	4541.7	5820.3	8466.2	12947.4	19574.3	26737.8	26463.5	27641.2	25104.2
65°	2113.5	2166.0	2718.5	3448.6	5070.0	8692.1	16835.6	28254.3	29137.7	30186.4	27322.6
66°	1786.8	1823.1	2295.0	2847.6	4045.6	7050.5	15153.7	27959.9	29976.6	30775.2	27278.2
67.5°	1383.5	1431.9	1827.2	2258.7	2968.6	4880.5	12197.2	26495.7	30129.9	30597.8	26507.8
70°	947.9	980.1	1282.6	1714.2	2028.8	2496.7	7292.5	21905.7	27338.7	27734.0	23039.1
72.5°	665.5	681.7	899.5	1298.8	1560.9	1427.8	3618.0	15585.3	20921.5	21691.9	17920.6
75°	480.0	496.1	617.1	931.7	1218.1	935.8	1657.7	9954.6	12830.4	13435.4	10793.5
77.5°	346.9	367.0	419.5	601.0	883.3	657.5	814.8	5199.1	6050.2	5945.3	4642.5
80°	209.7	229.9	310.6	387.2	645.4	463.8	447.7	2170.0	2145.8	2036.9	1460.1
82.5°	96.8	112.9	165.4	262.2	451.7	322.7	213.8	774.4	677.6	621.2	411.4
85°	28.2	36.3	96.8	197.6	229.9	157.3	129.1	266.2	278.3	238.0	137.1
87.5°	0.0	4.0	44.4	48.4	68.6	52.4	48.4	68.6	129.1	104.9	44.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481840

CATALOG NUMBER: IFLD-S-SA6D-830-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0	3255.0
2.5°	3287.3	3259.0	3190.5	3085.6	2992.8	2944.4	2875.9	2815.3	2783.1	2779.0	2775.0
5°	3367.9	3291.3	3125.9	2936.4	2795.2	2641.9	2537.0	2460.4	2387.8	2319.2	2359.6
7.5°	3476.8	3355.8	3085.6	2839.6	2533.0	2335.4	2149.8	2040.9	1976.4	1915.9	1907.8
10°	3646.2	3493.0	3057.4	2613.7	2262.8	1972.4	1782.8	1625.5	1536.7	1431.9	1472.2
12.5°	3876.1	3601.9	2952.5	2408.0	1956.2	1649.7	1379.4	1125.3	984.2	875.3	879.3
15°	4106.1	3747.1	2855.7	2157.9	1677.9	1274.6	879.3	705.9	665.5	641.3	649.4
17.5°	4331.9	3864.0	2706.4	1903.8	1359.3	810.7	641.3	605.0	584.9	560.6	560.6
20°	4606.2	3940.7	2520.9	1669.8	935.8	601.0	548.5	524.3	492.1	459.8	463.8
22.5°	4872.4	4005.2	2307.1	1371.4	629.2	520.3	459.8	427.5	399.3	367.0	367.0
25°	5138.6	4025.4	2028.8	984.2	508.2	415.4	359.0	314.6	286.4	258.1	262.2
27.5°	5320.1	3900.3	1766.7	629.2	407.4	314.6	250.1	213.8	189.6	161.3	161.3
30°	5425.0	3670.4	1484.3	443.7	306.5	213.8	149.2	112.9	88.7	68.6	64.5
32.5°	5529.9	3484.9	1165.7	338.8	201.7	112.9	56.5	20.2	0.0	0.0	0.0
35°	5739.6	3275.2	782.5	189.6	68.6	4.0	0.0	0.0	0.0	0.0	0.0
37.5°	5872.7	2984.8	359.0	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6207.5	2839.6	88.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6752.0	2738.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7348.9	2698.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8143.5	2807.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8982.5	3101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9902.1	3380.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10704.8	3714.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12181.0	4505.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14831.0	6058.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17815.8	7211.8	44.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18908.8	7183.6	76.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	18715.2	6788.3	76.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17710.9	6030.0	68.6	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15210.1	4981.3	68.6	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11596.2	3880.2	64.5	16.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6998.0	2065.1	52.4	20.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2787.1	726.0	40.3	16.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	754.3	217.8	24.2	16.1	12.1	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	197.6	80.7	20.2	16.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
85°	76.6	32.3	16.1	12.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0
87.5°	24.2	12.1	12.1	8.1	8.1	4.0	4.0	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)