

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: P482209

Luminaire Tested: **IFLD-S-SA2C-830-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482209  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

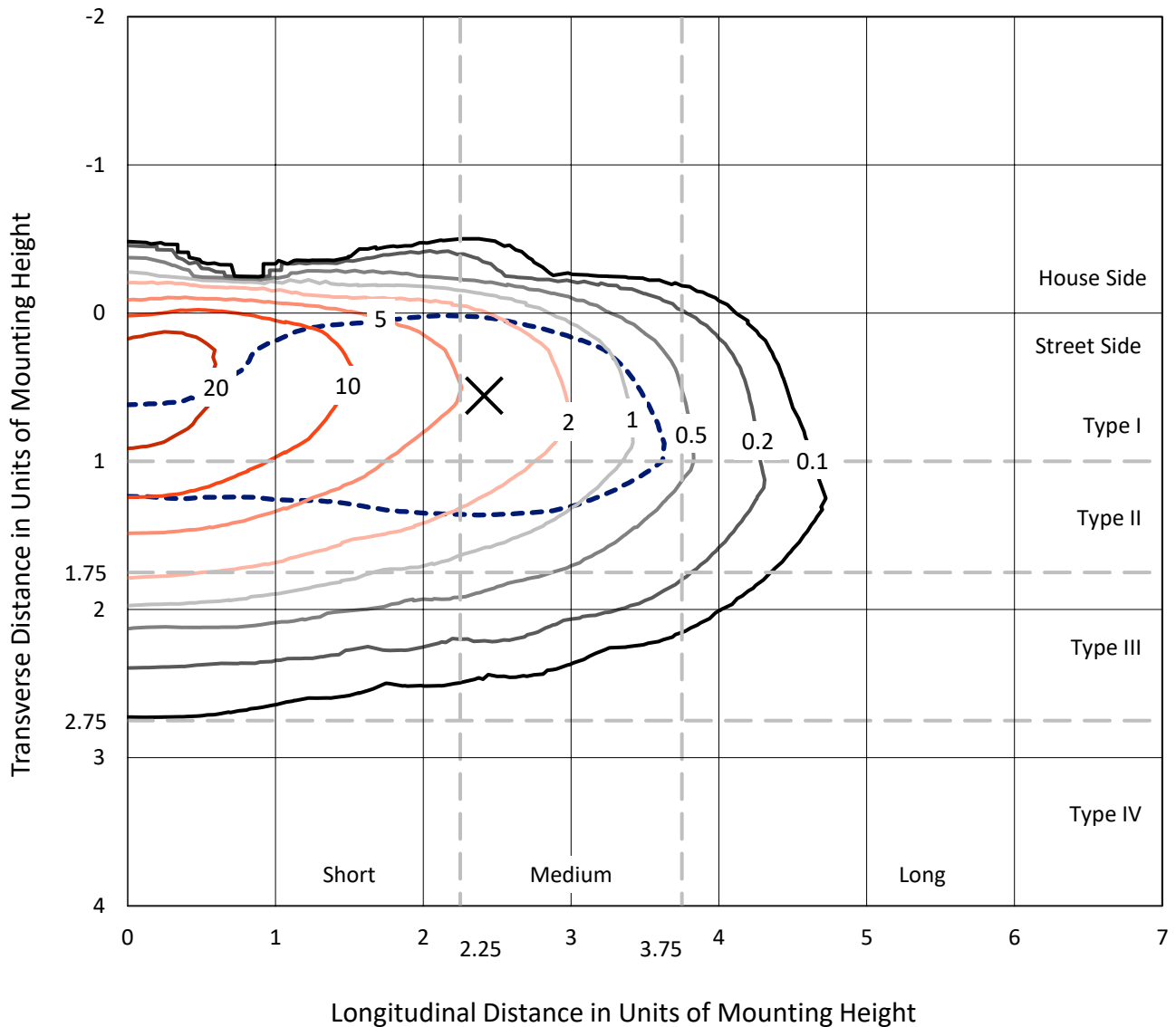
Lumens per Lamp: N/A  
Luminaire Lumens: 8879.4 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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: P482209  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

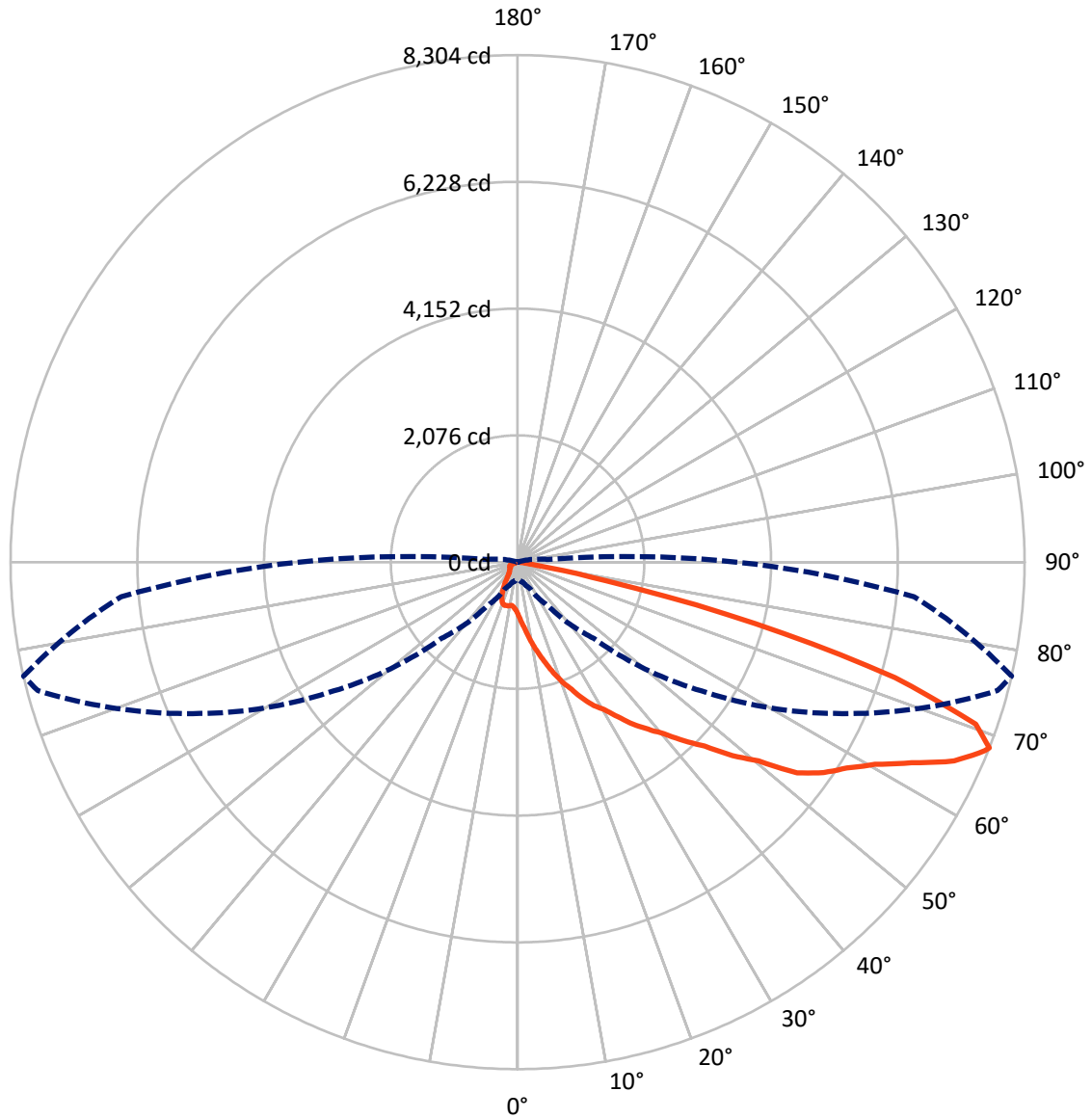
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482209  
CATALOG NUMBER: IFLD-S-SA2C-830-U-T2R-HSS

### 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	402.7	0.0	402.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	8476.7	0.0	8476.7
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	8879.4	0.0	8879.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.3	1.1
10°-20°	366.3	4.1
20°-30°	710.0	8.0
30°-40°	1237.7	13.9
40°-50°	1812.7	20.4
50°-60°	2129.7	24.0
60°-70°	1798.3	20.3
70°-80°	697.1	7.9
80°-90°	28.3	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°	8879.4	100.0
0°-180°	8879.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P482209

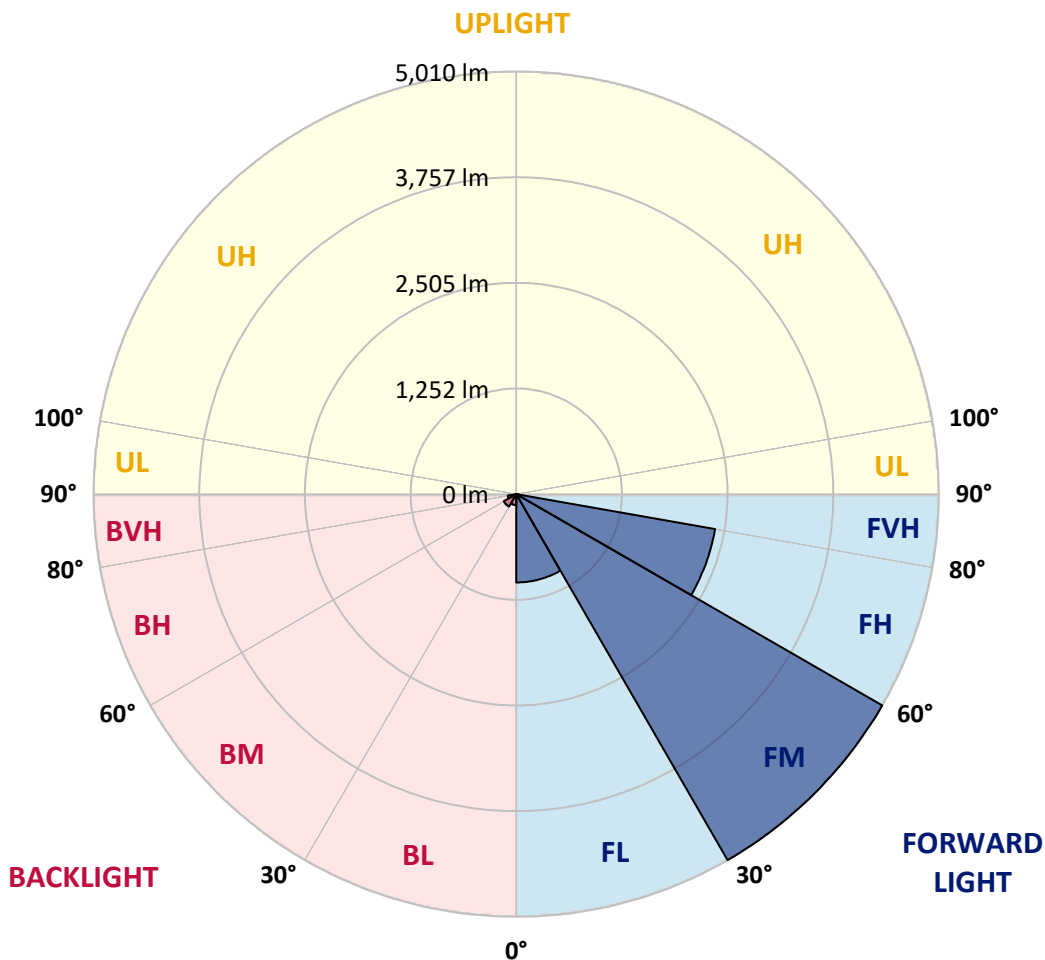
CATALOG NUMBER: IFLD-S-SA2C-830-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.0	11.8			
FM (30°-60°)	5009.9	56.4			
FH (60°-80°)	2393.7	27.0			G2/5000
FVH (80°-90°)	26.1	0.3			G1/100
BL (0°-30°)	128.7	1.4	B1/500		
BM (30°-60°)	170.2	1.9	B0/220		
BH (60°-80°)	101.7	1.1	B0/110		G0/110
BVH (80°-90°)	2.2	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





REPORT NUMBER: P482209

CATALOG NUMBER: IFLD-S-SA2C-830-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2
2.5°	1291.8	1267.4	1241.7	1234.3	1186.6	1132.8	1082.6	1033.7	951.8	953.0	896.7
5°	1665.0	1634.4	1613.6	1608.7	1534.1	1441.1	1365.2	1227.0	1091.2	1060.6	957.9
7.5°	1972.0	1962.2	1931.6	1906.0	1850.9	1737.1	1647.8	1449.6	1242.9	1208.7	1032.5
10°	2158.0	2172.6	2186.1	2153.1	2110.2	2028.3	1906.0	1691.9	1415.4	1372.6	1129.1
12.5°	2356.1	2331.7	2340.2	2367.1	2310.9	2292.5	2140.8	1941.4	1617.2	1535.3	1251.5
15°	2407.5	2417.3	2438.1	2516.4	2554.3	2501.7	2370.8	2143.3	1826.4	1712.7	1365.2
17.5°	2441.8	2436.9	2462.6	2580.0	2637.5	2687.7	2605.7	2368.4	2008.7	1907.2	1507.1
20°	2484.6	2457.7	2513.9	2588.6	2721.9	2827.1	2823.5	2594.7	2199.6	2091.9	1647.8
22.5°	2643.6	2622.8	2668.1	2675.4	2768.4	2915.2	2950.7	2779.4	2395.3	2263.2	1799.5
25°	2937.2	2975.1	2921.3	2874.8	2903.0	2999.6	3025.3	2943.3	2592.2	2471.1	1951.2
27.5°	3366.6	3361.7	3255.3	3195.3	3128.1	3115.8	3134.2	3096.3	2747.6	2660.7	2076.0
30°	3827.8	3787.4	3689.6	3545.2	3397.2	3305.4	3279.8	3240.6	2929.9	2803.9	2199.6
32.5°	4194.8	4216.8	4108.0	3919.6	3673.7	3550.1	3426.6	3383.7	3130.5	3019.2	2341.5
35°	4532.4	4503.1	4416.2	4257.2	4037.0	3837.6	3644.3	3552.6	3371.5	3261.4	2498.0
37.5°	4782.0	4818.7	4653.6	4501.9	4282.9	4117.7	3928.1	3727.5	3619.8	3473.0	2688.9
40°	5018.1	4960.6	4849.3	4709.8	4506.8	4380.8	4256.0	3942.8	3884.1	3694.5	2904.2
42.5°	4976.5	4980.2	4919.0	4806.5	4659.7	4587.5	4544.7	4204.6	4123.9	4002.7	3114.6
45°	4806.5	4821.2	4842.0	4786.9	4799.1	4727.0	4842.0	4505.5	4426.0	4297.6	3356.8
47.5°	4619.3	4643.8	4638.9	4739.2	4853.0	4877.4	5164.9	4839.5	4805.3	4734.3	3692.0
50°	4308.6	4318.4	4412.6	4594.8	4750.2	5005.9	5407.1	5204.1	5256.7	5117.2	4090.8
52.5°	3777.7	3813.1	4055.3	4315.9	4629.1	5070.7	5571.1	5746.0	5879.3	5736.2	4473.7
55°	3106.0	3155.0	3393.5	3881.6	4340.4	4972.8	5720.3	6032.3	6302.6	6086.1	4706.2
57.5°	2499.3	2504.2	2718.2	3222.3	3930.6	4780.8	5796.2	6171.7	6535.0	6361.3	4990.0
60°	1904.7	1885.2	2077.2	2513.9	3240.6	4308.6	5606.5	6242.7	6825.0	6724.7	5331.3
62.5°	1225.8	1195.2	1404.4	1830.1	2531.1	3522.0	5227.3	6243.9	7277.6	7239.7	5902.6
65°	606.8	586.0	765.8	1121.8	1751.8	2693.8	4686.6	6220.6	7830.6	7855.0	6459.2
67.5°	320.5	327.9	385.3	568.8	1010.5	1903.5	3871.8	5947.8	8113.1	8250.2	6593.8
68°	294.8	297.3	342.5	473.4	877.1	1765.3	3678.6	5868.3	8135.2	8304.0	6519.1
70°	239.8	243.4	259.3	297.3	474.7	1148.7	2838.1	5193.0	7803.6	7957.8	5901.4
72.5°	190.8	201.8	211.6	227.5	278.9	603.1	1765.3	4046.8	6447.0	6464.1	4593.6
75°	145.6	154.1	173.7	187.2	217.8	331.5	840.4	2467.5	4230.3	4022.3	2706.0
77.5°	112.5	119.9	128.4	146.8	182.3	223.9	256.9	1047.2	1797.1	1479.0	764.6
80°	67.3	72.2	100.3	115.0	159.0	151.7	101.5	291.2	364.6	287.5	139.5
82.5°	39.1	42.8	57.5	88.1	111.3	82.0	59.9	90.5	89.3	78.3	46.5
85°	1.2	2.4	31.8	52.6	39.1	22.0	36.7	37.9	31.8	29.4	20.8
87.5°	0.0	1.2	8.6	7.3	8.6	4.9	7.3	9.8	12.2	11.0	8.6
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: P482209

CATALOG NUMBER: IFLD-S-SA2C-830-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2
2.5°	858.8	831.9	771.9	726.7	677.7	648.4	619.0	600.7	590.9	584.8	589.6
5°	880.8	824.5	727.9	642.2	586.0	548.1	510.1	490.6	472.2	462.4	468.5
7.5°	929.7	845.3	685.1	592.1	526.0	467.3	419.6	381.7	359.7	340.1	343.8
10°	989.7	857.6	686.3	562.7	467.3	374.3	307.1	259.3	232.4	215.3	214.1
12.5°	1050.8	905.3	691.2	533.4	395.1	281.4	201.8	166.4	150.5	141.9	141.9
15°	1143.8	948.1	678.9	479.5	299.7	183.5	138.2	126.0	119.9	112.5	113.8
17.5°	1224.6	1016.6	672.8	398.8	205.5	132.1	115.0	101.5	95.4	88.1	88.1
20°	1333.4	1059.4	639.8	308.3	141.9	110.1	93.0	80.7	71.0	64.8	66.1
22.5°	1432.5	1092.4	581.1	210.4	108.9	86.9	68.5	56.3	47.7	40.4	41.6
25°	1540.2	1125.5	495.4	129.7	77.1	53.8	36.7	26.9	18.3	13.5	13.5
27.5°	1617.2	1135.3	384.1	77.1	46.5	24.5	8.6	1.2	0.0	0.0	0.0
30°	1695.5	1138.9	265.5	41.6	18.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1784.8	1137.7	166.4	22.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	1853.3	1116.9	79.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1957.3	1086.3	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2076.0	1031.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2182.4	975.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2303.5	905.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2516.4	875.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2794.1	852.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2965.4	784.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3054.7	713.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3186.8	678.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3382.5	681.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3688.3	715.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3857.2	681.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3714.0	545.6	23.2	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	3590.5	501.6	23.2	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	2967.8	326.6	22.0	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2161.6	181.1	18.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	1257.6	90.5	13.5	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	327.9	45.3	11.0	6.1	3.7	1.2	0.0	0.0	0.0	0.0	0.0
80°	64.8	29.4	9.8	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	30.6	20.8	9.8	7.3	6.1	3.7	1.2	0.0	0.0	0.0	0.0
85°	15.9	9.8	9.8	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0
87.5°	7.3	3.7	3.7	3.7	3.7	2.4	1.2	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)