

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: P481837

Luminaire Tested: **IFLD-S-SA6A-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481837
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-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

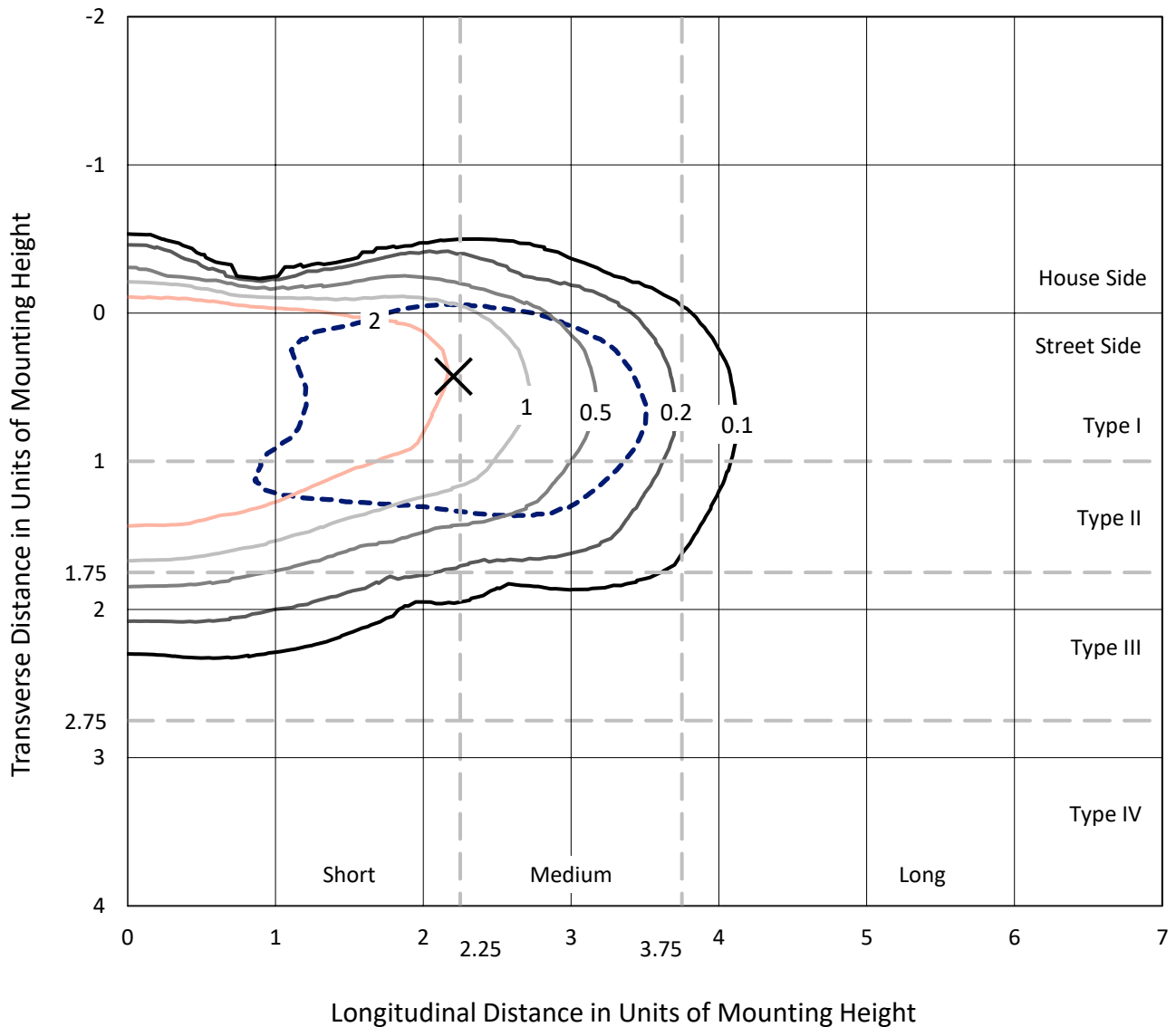
Lumens per Lamp: N/A
Luminaire Lumens: 15444.2 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6
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

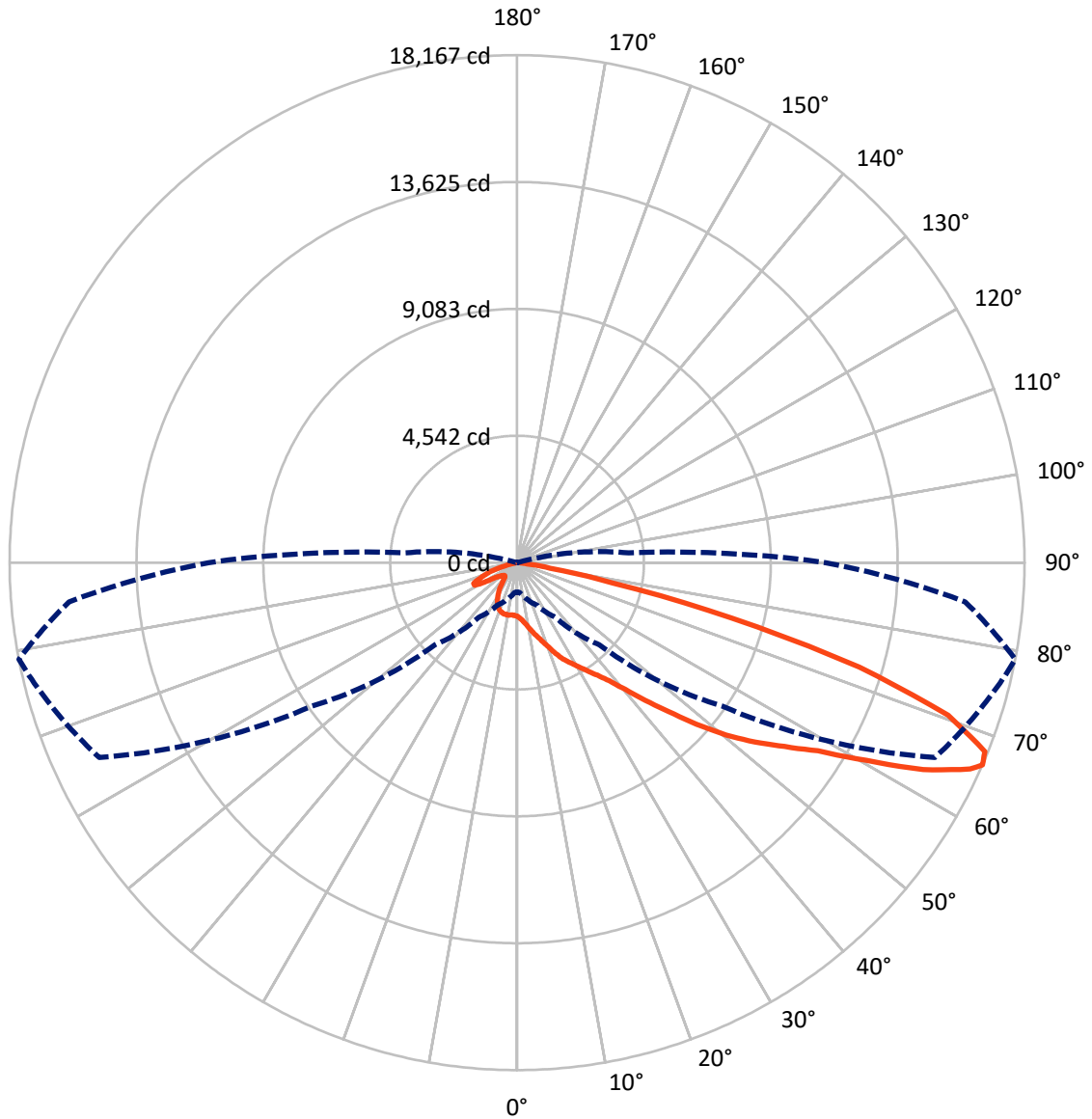
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.7	0.0	1159.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14284.6	0.0	14284.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	15444.2	0.0	15444.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	1.2
10°-20°	500.1	3.2
20°-30°	830.8	5.4
30°-40°	1427.0	9.2
40°-50°	2585.2	16.7
50°-60°	4086.5	26.5
60°-70°	4158.3	26.9
70°-80°	1585.8	10.3
80°-90°	88.9	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°	15444.2	100.0
0°-180°	15444.2	100.0

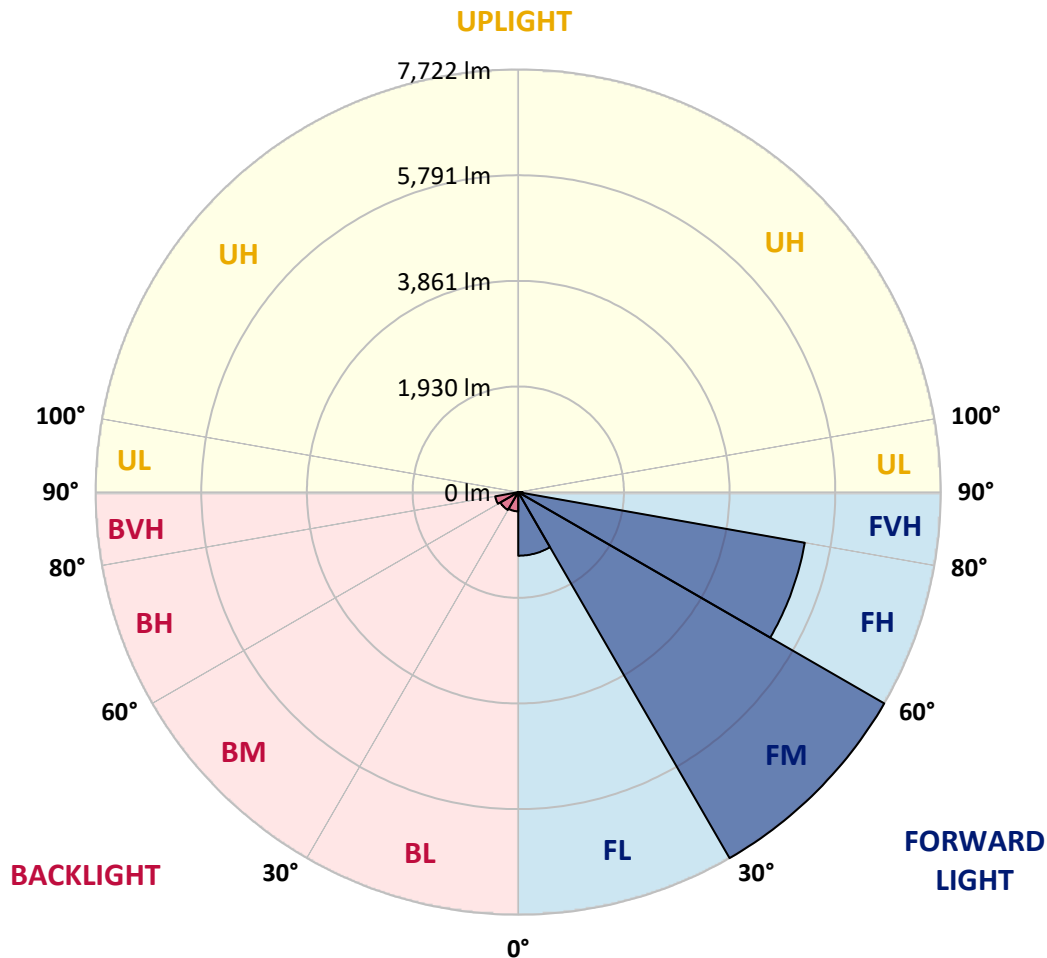


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.9	7.5			
FM (30°-60°)	7721.8	50.0			
FH (60°-80°)	5316.5	34.4			G3/7500
FVH (80°-90°)	84.4	0.5			G1/100
BL (0°-30°)	350.7	2.3	B1/500		
BM (30°-60°)	376.9	2.4	B1/1000		
BH (60°-80°)	427.5	2.8	B1/500		G1/500
BVH (80°-90°)	4.5	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	2176.2	2173.8	2164.3	2147.6	2126.2	2119.1	2088.1	2045.3	2021.4	1995.3	1983.4
5°	2326.2	2314.3	2342.9	2331.0	2335.7	2278.6	2240.5	2209.5	2119.1	2083.4	2026.2
7.5°	2359.5	2371.5	2369.1	2388.1	2407.2	2428.6	2402.4	2357.2	2266.7	2214.3	2152.4
10°	2359.5	2354.8	2373.8	2400.0	2454.8	2502.4	2573.8	2514.3	2445.3	2383.4	2271.5
12.5°	2316.7	2309.5	2328.6	2383.4	2481.0	2578.6	2657.2	2714.3	2616.7	2566.7	2421.5
15°	2185.7	2178.6	2257.2	2354.8	2483.4	2642.9	2807.2	2900.0	2833.4	2754.8	2592.9
17.5°	2023.8	2033.4	2116.7	2278.6	2483.4	2673.8	2883.4	3085.7	3076.2	2976.2	2807.2
20°	1969.1	1976.2	2059.5	2176.2	2409.5	2695.3	3002.4	3288.1	3345.3	3226.2	3004.8
22.5°	2073.8	2066.7	2073.8	2145.3	2359.5	2676.2	3081.0	3519.1	3621.5	3528.6	3264.3
25°	2431.0	2426.2	2366.7	2257.2	2331.0	2633.4	3121.5	3671.5	3907.2	3821.5	3473.8
27.5°	2954.8	2935.7	2842.9	2614.3	2464.3	2659.6	3188.1	3819.1	4157.2	4059.6	3661.9
30°	3516.7	3471.5	3350.0	3064.3	2809.6	2757.2	3226.2	3928.6	4435.8	4311.9	3826.2
32.5°	3904.8	3964.3	3926.2	3635.8	3245.3	2983.4	3288.1	4066.7	4692.9	4612.0	4107.2
35°	4504.8	4573.9	4414.3	4157.2	3764.3	3342.9	3419.1	4178.6	5088.1	4952.4	4369.1
37.5°	5262.0	5314.3	5200.1	4712.0	4297.7	3785.8	3688.1	4411.9	5428.6	5364.3	4704.8
40°	5642.9	5895.3	5733.4	5292.9	4847.7	4404.8	4133.4	4685.8	6021.5	5969.1	5169.1
42.5°	6169.1	6295.3	6212.0	5885.8	5421.5	5066.7	4683.4	5219.1	6740.5	6740.5	5797.7
45°	6726.3	6731.0	6726.3	6459.6	6047.7	5864.3	5426.2	5888.2	7514.4	7600.1	6550.1
47.5°	7183.4	7326.3	7314.4	7154.8	6835.8	6766.7	6169.1	6650.1	8485.8	8635.8	7283.4
50°	7419.1	7578.6	7626.3	7709.6	7695.3	7840.6	6981.0	7533.4	9323.9	9693.0	8226.3
52.5°	7354.8	7366.7	7659.6	7988.2	8512.0	8919.1	7959.6	8535.8	10304.9	10669.2	8954.9
55°	6828.6	6783.4	7385.8	7762.0	8845.3	9578.7	9314.4	9785.8	11069.2	11623.9	9707.2
57.5°	5673.9	5685.8	6242.9	7007.2	8597.7	9840.6	10762.0	11419.2	12140.6	12700.1	10764.4
60°	3916.7	3902.4	4526.2	5409.6	7142.9	9352.5	11595.4	13535.9	13573.9	14366.8	12662.0
62.5°	2202.4	2207.2	2681.0	3435.7	4997.7	7642.9	11554.9	15783.5	15621.6	16316.8	14819.2
65°	1247.6	1278.6	1604.8	2035.7	2992.9	5131.0	9938.2	16678.7	17200.2	17819.2	16128.7
66°	1054.8	1076.2	1354.8	1681.0	2388.1	4161.9	8945.3	16504.9	17695.4	18166.9	16102.5
67.5°	816.7	845.2	1078.6	1333.3	1752.4	2881.0	7200.1	15640.6	17785.9	18062.1	15647.8
70°	559.5	578.6	757.2	1011.9	1197.6	1473.8	4304.8	12931.1	16138.3	16371.6	13600.1
72.5°	392.9	402.4	531.0	766.7	921.4	842.9	2135.7	9200.1	12350.1	12804.9	10578.7
75°	283.3	292.9	364.3	550.0	719.1	552.4	978.6	5876.3	7573.9	7931.0	6371.5
77.5°	204.8	216.7	247.6	354.8	521.4	388.1	481.0	3069.1	3571.5	3509.6	2740.5
80°	123.8	135.7	183.3	228.6	381.0	273.8	264.3	1281.0	1266.7	1202.4	861.9
82.5°	57.1	66.7	97.6	154.8	266.7	190.5	126.2	457.1	400.0	366.7	242.9
85°	16.7	21.4	57.1	116.7	135.7	92.9	76.2	157.1	164.3	140.5	81.0
87.5°	0.0	2.4	26.2	28.6	40.5	31.0	28.6	40.5	76.2	61.9	26.2
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°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	1940.5	1923.8	1883.4	1821.4	1766.7	1738.1	1697.6	1661.9	1642.9	1640.5	1638.1
5°	1988.1	1942.9	1845.3	1733.4	1650.0	1559.5	1497.6	1452.4	1409.5	1369.1	1392.9
7.5°	2052.4	1981.0	1821.4	1676.2	1495.3	1378.6	1269.1	1204.8	1166.7	1131.0	1126.2
10°	2152.4	2061.9	1804.8	1542.9	1335.7	1164.3	1052.4	959.5	907.2	845.2	869.1
12.5°	2288.1	2126.2	1742.9	1421.4	1154.8	973.8	814.3	664.3	581.0	516.7	519.1
15°	2423.8	2211.9	1685.7	1273.8	990.5	752.4	519.1	416.7	392.9	378.6	383.3
17.5°	2557.2	2281.0	1597.6	1123.8	802.4	478.6	378.6	357.1	345.2	331.0	331.0
20°	2719.1	2326.2	1488.1	985.7	552.4	354.8	323.8	309.5	290.5	271.4	273.8
22.5°	2876.2	2364.3	1361.9	809.5	371.4	307.1	271.4	252.4	235.7	216.7	216.7
25°	3033.4	2376.2	1197.6	581.0	300.0	245.2	211.9	185.7	169.0	152.4	154.8
27.5°	3140.5	2302.4	1042.9	371.4	240.5	185.7	147.6	126.2	111.9	95.2	95.2
30°	3202.4	2166.7	876.2	261.9	181.0	126.2	88.1	66.7	52.4	40.5	38.1
32.5°	3264.3	2057.2	688.1	200.0	119.0	66.7	33.3	11.9	0.0	0.0	0.0
35°	3388.1	1933.4	461.9	111.9	40.5	2.4	0.0	0.0	0.0	0.0	0.0
37.5°	3466.7	1761.9	211.9	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3664.3	1676.2	52.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3985.8	1616.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4338.1	1592.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4807.2	1657.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5302.4	1831.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5845.3	1995.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6319.1	2192.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7190.5	2659.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8754.9	3576.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10516.8	4257.2	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11162.0	4240.5	45.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11047.7	4007.2	45.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10454.9	3559.6	40.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8978.7	2940.5	40.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6845.3	2290.5	38.1	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	4131.0	1219.1	31.0	11.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1645.3	428.6	23.8	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	445.2	128.6	14.3	9.5	7.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	116.7	47.6	11.9	9.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	45.2	19.0	9.5	7.1	7.1	4.8	2.4	0.0	0.0	0.0	0.0
87.5°	14.3	7.1	7.1	4.8	4.8	2.4	2.4	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)