

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: P482215

Luminaire Tested: **IFLD-S-SA3D-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482215
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

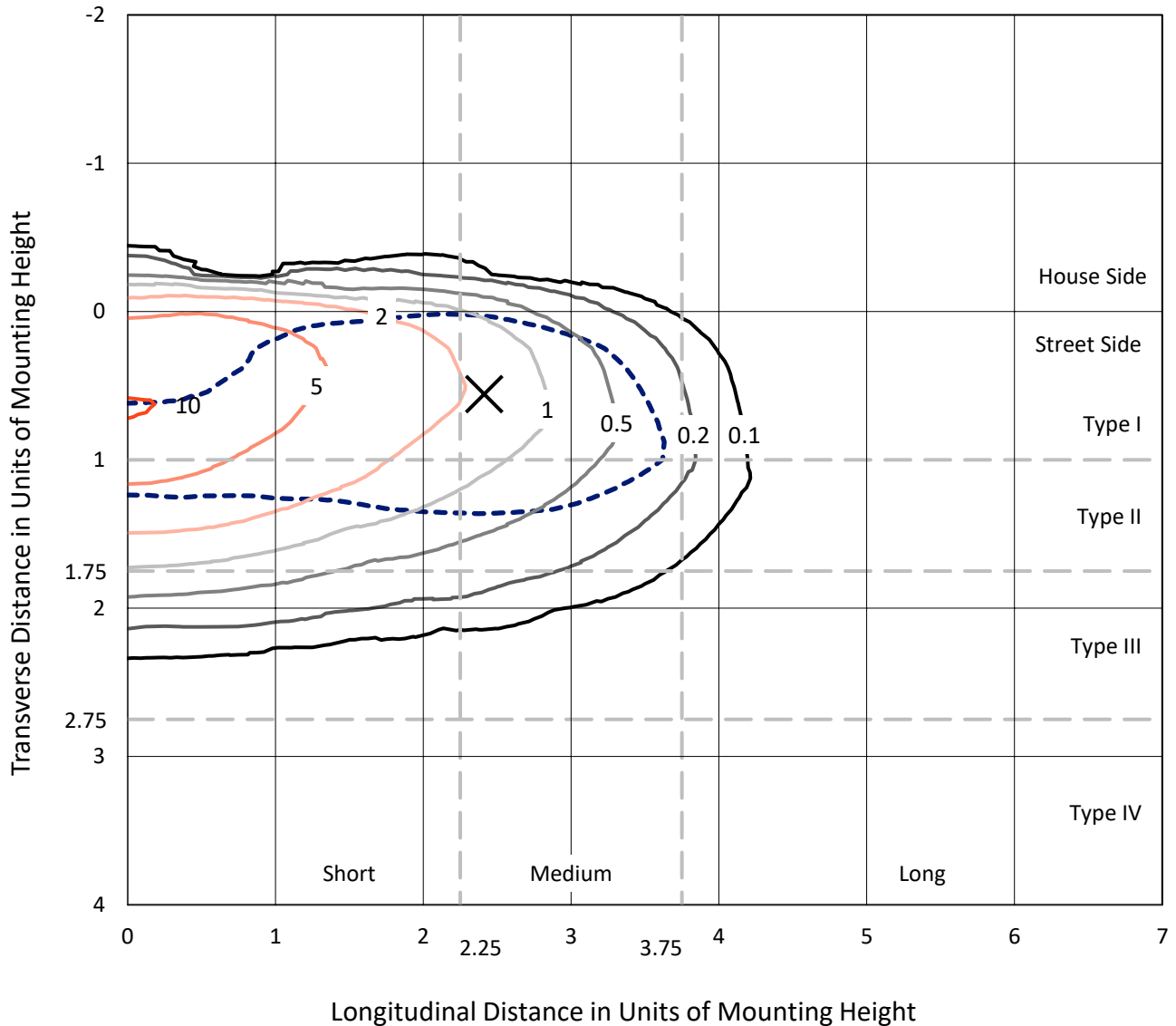
Lumens per Lamp: N/A
Luminaire Lumens: 14560.4 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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: P482215
 CATALOG NUMBER: IFLD-S-SA3D-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

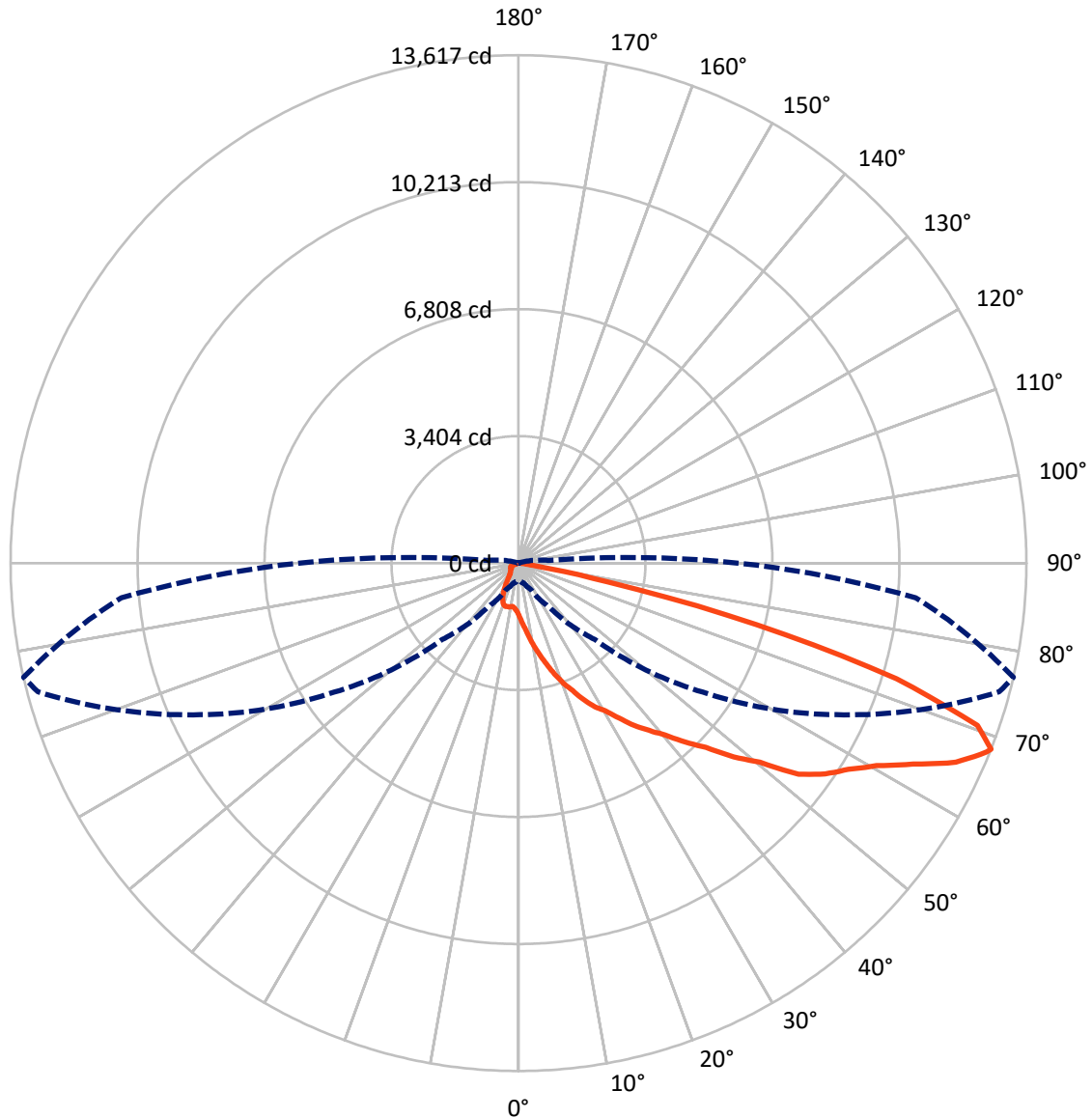
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P482215
CATALOG NUMBER: IFLD-S-SA3D-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
House Side	Lumens	660.3	0.0	660.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	13900.1	0.0	13900.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	14560.4	0.0	14560.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	1.1
10°-20°	600.7	4.1
20°-30°	1164.2	8.0
30°-40°	2029.6	13.9
40°-50°	2972.5	20.4
50°-60°	3492.2	24.0
60°-70°	2948.9	20.3
70°-80°	1143.0	7.9
80°-90°	46.5	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°	14560.4	100.0
0°-180°	14560.4	100.0

Coefficient of Utilization



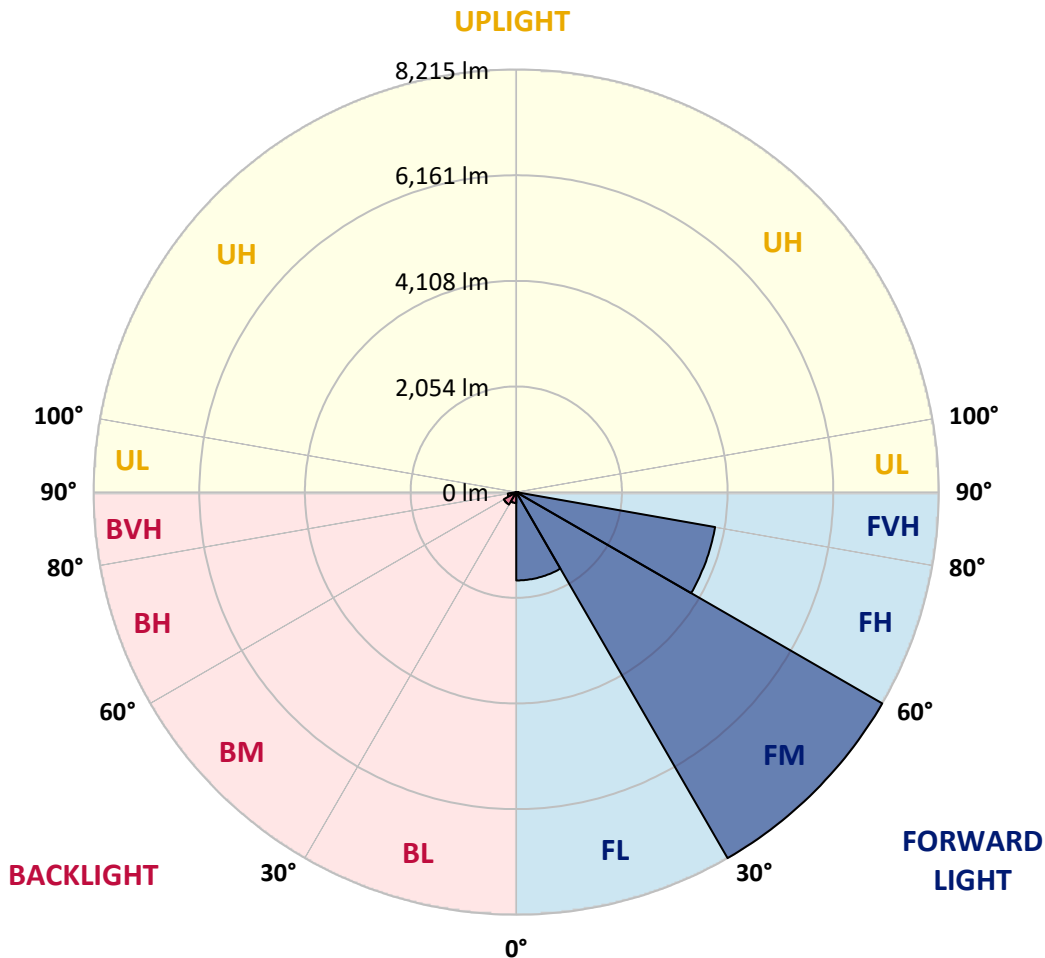
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.8	11.8			
FM (30°-60°)	8215.2	56.4			
FH (60°-80°)	3925.2	27.0			G2/5000
FVH (80°-90°)	42.9	0.3			G1/100
BL (0°-30°)	211.0	1.4	B1/500		
BM (30°-60°)	279.0	1.9	B1/1000		
BH (60°-80°)	166.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	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: P482215

CATALOG NUMBER: IFLD-S-SA3D-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2
2.5°	2118.3	2078.2	2036.1	2024.1	1945.8	1857.6	1775.3	1695.1	1560.7	1562.7	1470.4
5°	2730.2	2680.0	2645.9	2637.9	2515.5	2363.1	2238.7	2012.0	1789.4	1739.2	1570.7
7.5°	3233.7	3217.6	3167.5	3125.4	3035.1	2848.5	2702.1	2377.1	2038.1	1981.9	1693.1
10°	3538.6	3562.7	3584.7	3530.6	3460.4	3326.0	3125.4	2774.3	2321.0	2250.7	1851.5
12.5°	3863.6	3823.5	3837.5	3881.6	3789.4	3759.3	3510.5	3183.5	2651.9	2517.5	2052.1
15°	3947.8	3963.9	3998.0	4126.4	4188.5	4102.3	3887.6	3514.5	2995.0	2808.4	2238.7
17.5°	4004.0	3996.0	4038.1	4230.7	4325.0	4407.2	4272.8	3883.6	3293.9	3127.4	2471.4
20°	4074.2	4030.1	4122.4	4244.7	4463.4	4635.9	4629.9	4254.7	3606.8	3430.3	2702.1
22.5°	4335.0	4300.9	4375.1	4387.1	4539.6	4780.3	4838.5	4557.7	3927.8	3711.1	2950.8
25°	4816.4	4878.6	4790.4	4714.1	4760.3	4918.7	4960.9	4826.5	4250.7	4052.1	3199.6
27.5°	5520.5	5512.5	5338.0	5239.7	5129.4	5109.3	5139.4	5077.2	4505.5	4363.1	3404.2
30°	6276.8	6210.6	6050.1	5813.4	5570.7	5420.2	5378.1	5313.9	4804.4	4597.8	3606.8
32.5°	6878.6	6914.7	6736.2	6427.3	6024.0	5821.4	5618.8	5548.6	5133.4	4950.8	3839.5
35°	7432.3	7384.1	7241.7	6980.9	6619.8	6292.9	5975.9	5825.5	5528.6	5348.0	4096.3
37.5°	7841.5	7901.7	7630.9	7382.1	7023.0	6752.2	6441.3	6112.3	5935.8	5695.1	4409.2
40°	8228.7	8134.4	7951.8	7723.1	7390.1	7183.5	6978.9	6465.4	6369.1	6058.2	4762.3
42.5°	8160.4	8166.5	8066.2	7881.6	7640.9	7522.5	7452.3	6894.7	6762.3	6563.7	5107.3
45°	7881.6	7905.7	7939.8	7849.5	7869.6	7751.2	7939.8	7388.1	7257.7	7047.1	5504.5
47.5°	7574.7	7614.8	7606.8	7771.3	7957.8	7998.0	8469.4	7935.8	7879.6	7763.3	6054.1
50°	7065.2	7081.2	7235.7	7534.6	7789.3	8208.6	8866.6	8533.6	8619.8	8391.1	6708.1
52.5°	6194.6	6252.7	6649.9	7077.2	7590.7	8314.9	9135.4	9422.2	9640.9	9406.2	7336.0
55°	5093.3	5173.5	5564.7	6365.1	7117.3	8154.4	9380.1	9891.6	10335.0	9979.9	7717.1
57.5°	4098.3	4106.3	4457.4	5283.8	6445.3	7839.5	9504.5	10120.3	10716.1	10431.3	8182.5
60°	3123.4	3091.3	3406.2	4122.4	5313.9	7065.2	9193.5	10236.7	11191.5	11027.0	8742.2
62.5°	2010.0	1959.9	2302.9	3001.0	4150.4	5775.3	8571.7	10238.7	11933.8	11871.6	9679.0
65°	995.0	960.9	1255.8	1839.5	2872.6	4417.2	7685.0	10200.6	12840.5	12880.6	10591.7
67.5°	525.6	537.6	631.9	932.8	1657.0	3121.4	6349.0	9753.2	13303.9	13528.5	10812.4
68°	483.4	487.5	561.7	776.3	1438.3	2894.7	6032.1	9622.8	13340.0	13616.8	10690.0
70°	393.2	399.2	425.3	487.5	778.3	1883.6	4653.9	8515.5	12796.3	13049.1	9677.0
72.5°	312.9	331.0	347.0	373.1	457.4	989.0	2894.7	6635.9	10571.7	10599.8	7532.6
75°	238.7	252.8	284.9	306.9	357.1	543.6	1378.1	4046.1	6936.8	6595.8	4437.3
77.5°	184.6	196.6	210.6	240.7	298.9	367.1	421.3	1717.1	2946.8	2425.3	1253.8
80°	110.3	118.4	164.5	188.6	260.8	248.7	166.5	477.4	597.8	471.4	228.7
82.5°	64.2	70.2	94.3	144.4	182.5	134.4	98.3	148.4	146.4	128.4	76.2
85°	2.0	4.0	52.2	86.3	64.2	36.1	60.2	62.2	52.2	48.1	34.1
87.5°	0.0	2.0	14.0	12.0	14.0	8.0	12.0	16.0	20.1	18.1	14.0
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°	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2	1394.2
2.5°	1408.2	1364.1	1265.8	1191.6	1111.3	1063.2	1015.0	985.0	968.9	958.9	966.9
5°	1444.3	1352.1	1193.6	1053.2	960.9	898.7	836.5	804.4	774.3	758.3	768.3
7.5°	1524.6	1386.2	1123.4	970.9	862.6	766.3	688.1	625.9	589.8	557.7	563.7
10°	1622.9	1406.2	1125.4	922.8	766.3	613.8	503.5	425.3	381.1	353.1	351.1
12.5°	1723.2	1484.4	1133.4	874.6	647.9	461.4	331.0	272.8	246.7	232.7	232.7
15°	1875.6	1554.7	1113.3	786.4	491.5	300.9	226.7	206.6	196.6	184.6	186.6
17.5°	2008.0	1667.0	1103.3	654.0	337.0	216.6	188.6	166.5	156.5	144.4	144.4
20°	2186.6	1737.2	1049.1	505.5	232.7	180.5	152.5	132.4	116.3	106.3	108.3
22.5°	2349.0	1791.4	952.9	345.0	178.5	142.4	112.3	92.3	78.2	66.2	68.2
25°	2525.6	1845.5	812.4	212.6	126.4	88.3	60.2	44.1	30.1	22.1	22.1
27.5°	2651.9	1861.6	629.9	126.4	76.2	40.1	14.0	2.0	0.0	0.0	0.0
30°	2780.3	1867.6	435.3	68.2	30.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2926.8	1865.6	272.8	36.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3039.1	1831.5	130.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3209.6	1781.3	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3404.2	1691.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3578.7	1598.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3777.3	1484.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4126.4	1436.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4581.7	1398.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4862.6	1285.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5009.0	1169.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5225.7	1113.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5546.6	1117.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6048.1	1173.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6325.0	1117.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6090.2	894.7	38.1	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	5887.6	822.5	38.1	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4866.6	535.6	36.1	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3544.6	296.9	30.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2062.2	148.4	22.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	537.6	74.2	18.1	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	106.3	48.1	16.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.2	34.1	16.0	12.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0
85°	26.1	16.0	16.0	12.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0
87.5°	12.0	6.0	6.0	6.0	6.0	4.0	2.0	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)