

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: P484195

Luminaire Tested: **IFLD-L-SA8D-830-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484195
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

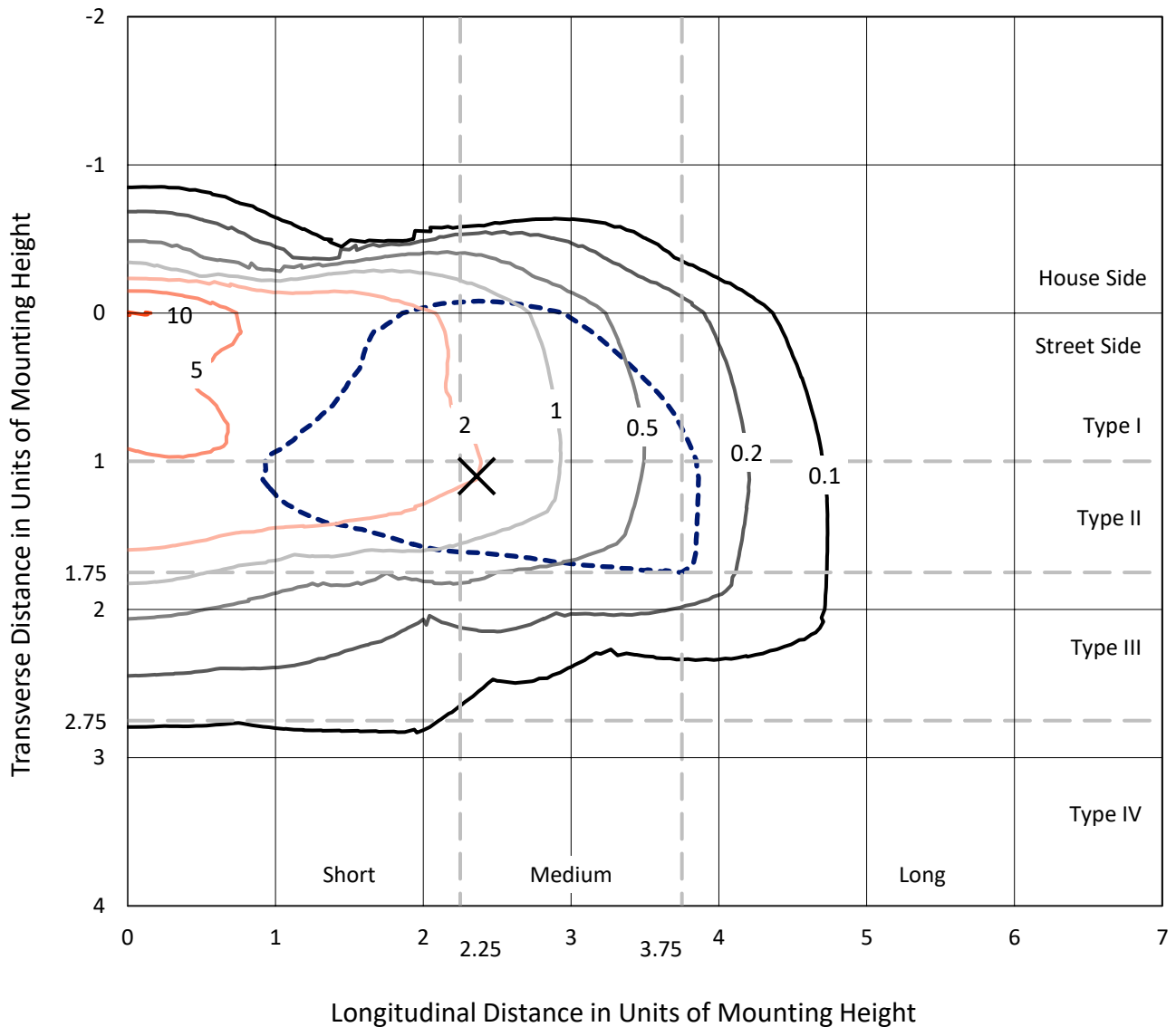
Lumens per Lamp: N/A
Luminaire Lumens: 36458.8 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

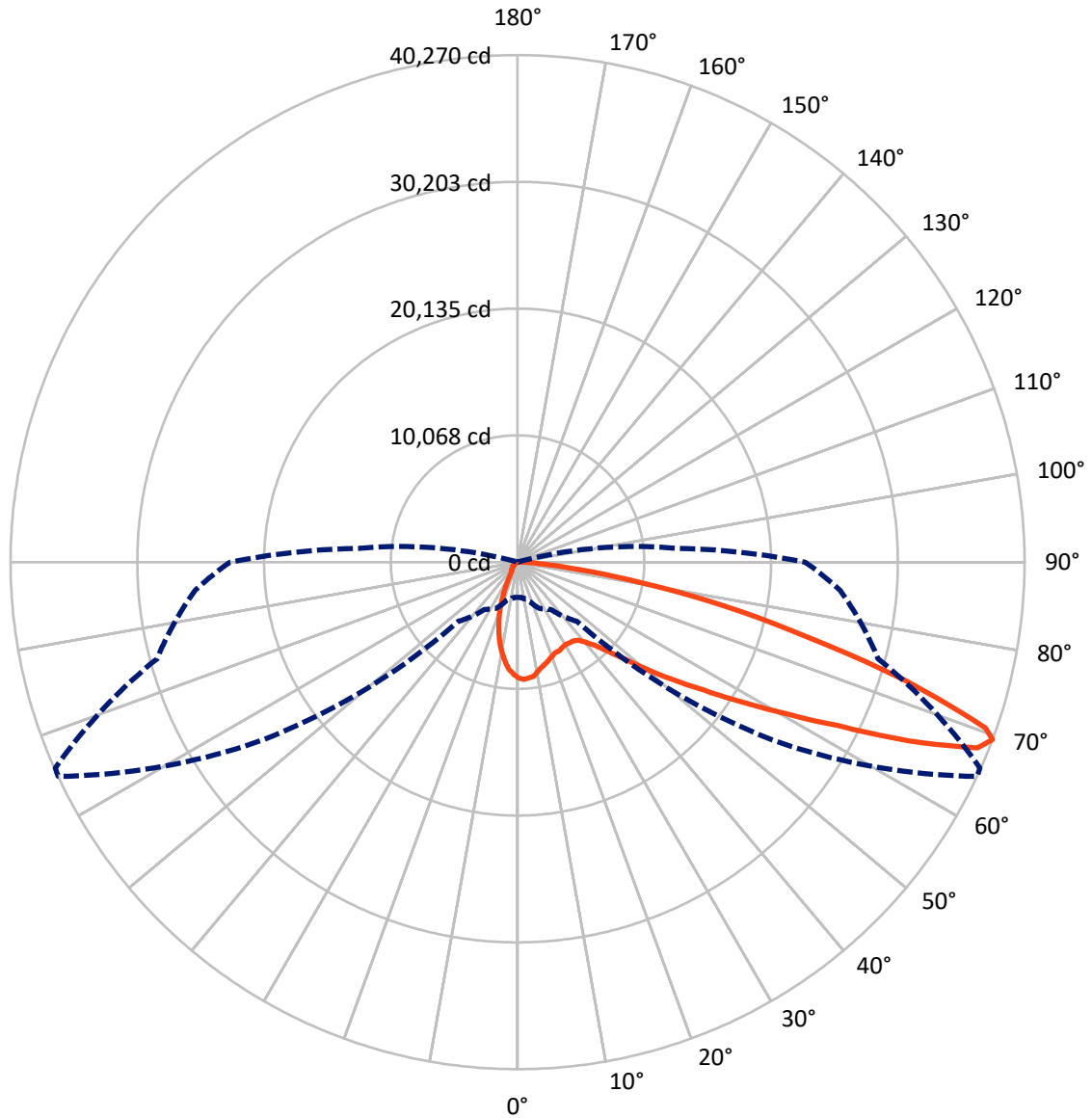
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4422.7	0.0	4422.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	32036.1	0.0	32036.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	36458.8	0.0	36458.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.2	2.1
10°-20°	1645.8	4.5
20°-30°	2291.4	6.3
30°-40°	3247.1	8.9
40°-50°	5117.3	14.0
50°-60°	8303.6	22.8
60°-70°	9273.5	25.4
70°-80°	5222.0	14.3
80°-90°	605.9	1.7
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°	36458.8	100.0
0°-180°	36458.8	100.0



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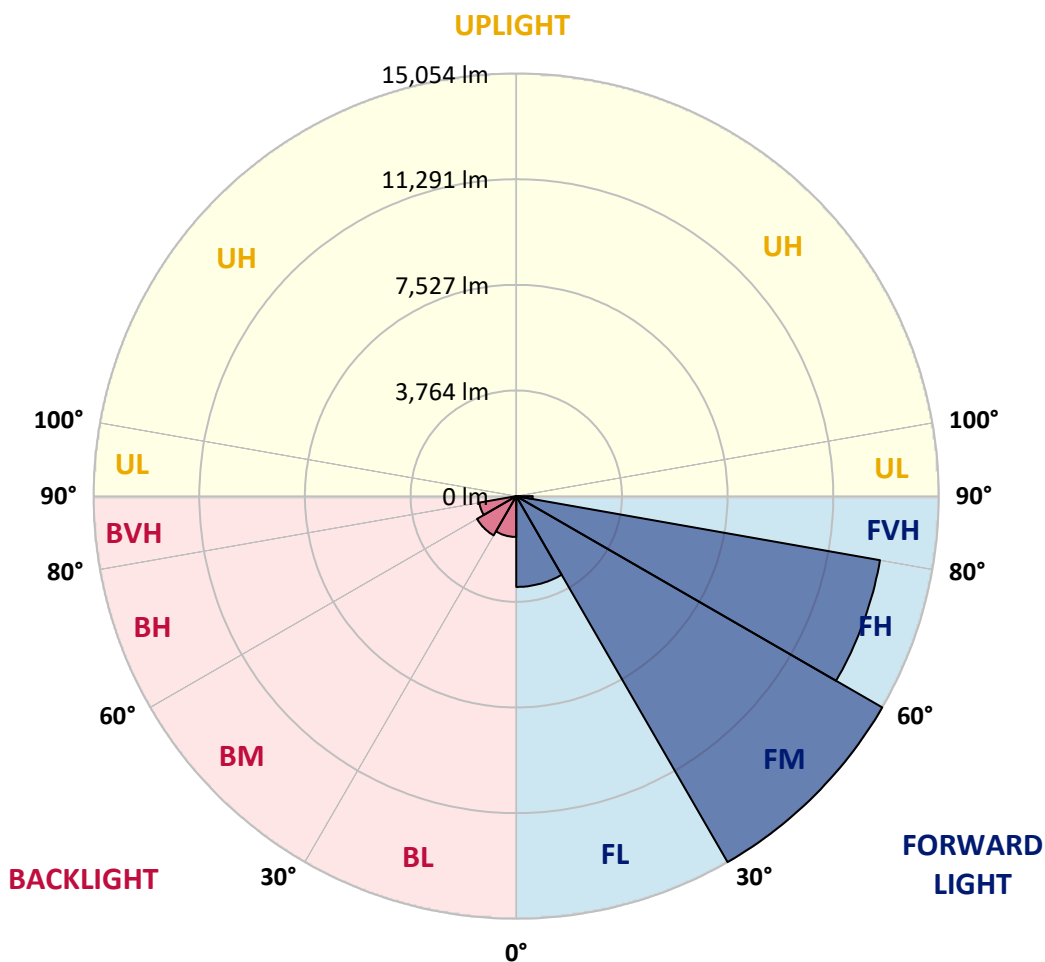
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3235.4	8.9			
FM (30°-60°)	15054.2	41.3			
FH (60°-80°)	13157.4	36.1			G5
FVH (80°-90°)	589.2	1.6			G4/750
BL (0°-30°)	1454.0	4.0	B3/2500		
BM (30°-60°)	1613.8	4.4	B2/2500		
BH (60°-80°)	1338.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	16.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1
2.5°	8852.8	8921.6	8941.3	9010.1	9044.6	9192.1	9275.7	9324.9	9300.3	9354.4	9359.3
5°	8223.2	8183.9	8287.2	8360.9	8518.3	8774.1	9034.7	9236.4	9329.8	9418.4	9403.6
7.5°	7549.4	7529.8	7633.0	7800.3	7942.9	8252.7	8670.8	9167.5	9147.9	9364.3	9428.2
10°	7087.1	7106.8	7141.2	7308.4	7519.9	7834.7	8356.0	8818.3	8921.6	9379.0	9506.9
12.5°	6664.2	6698.6	6762.5	6934.7	7180.6	7505.2	8011.7	8552.7	8710.1	9295.4	9551.1
15°	6526.5	6447.8	6575.6	6703.5	6959.3	7249.4	7677.3	8351.1	8420.0	9197.0	9624.9
17.5°	6413.3	6364.2	6423.2	6526.5	6797.0	7033.0	7436.3	8134.7	8262.6	9157.7	9615.1
20°	6447.8	6403.5	6428.1	6506.8	6629.7	6851.1	7224.8	7928.1	8065.8	8975.7	9600.3
22.5°	6546.1	6580.6	6536.3	6556.0	6595.3	6708.4	7111.7	7780.6	7898.6	8941.3	9683.9
25°	6988.8	6929.7	6870.7	6846.1	6615.0	6664.2	7077.3	7770.8	7854.4	8818.3	9615.1
27.5°	7451.1	7401.9	7377.3	7234.7	6919.9	6772.4	7082.2	7633.0	7746.2	8769.1	9531.5
30°	8011.7	8075.7	7977.3	7805.2	7367.5	7003.5	7136.3	7564.2	7721.6	8582.3	9477.4
32.5°	8601.9	8636.4	8685.5	8557.7	7992.1	7352.7	7298.6	7628.1	7638.0	8582.3	9354.4
35°	9270.8	9221.6	9349.5	9359.3	8862.6	7972.4	7608.5	7672.4	7775.7	8542.9	9310.2
37.5°	9846.2	9929.8	10077.4	10313.5	9802.0	8847.8	8090.4	7879.0	7923.2	8724.9	9344.6
40°	10475.8	10559.4	10893.8	11129.9	10839.7	9831.5	8823.3	8360.9	8395.4	8995.4	9521.6
42.5°	11169.2	11331.5	11729.9	12143.0	12064.3	11080.7	9767.5	9069.2	9054.4	9669.2	9885.6
45°	12108.6	12325.0	12757.8	13234.9	13303.7	12511.9	11026.6	10126.6	10175.8	10549.5	10638.1
47.5°	13416.8	13407.0	13830.0	14361.1	14759.5	13997.2	12531.6	11547.9	11543.0	11941.4	11754.5
50°	14680.8	14685.7	14798.9	15413.6	16446.5	16057.9	14395.6	13436.5	13382.4	13579.1	13279.1
52.5°	15266.1	15197.2	15113.6	15856.3	17744.9	18654.7	16756.3	15575.9	15531.7	15413.6	15334.9
55°	14651.3	14675.9	14671.0	15443.1	18428.5	21394.2	19785.9	17931.8	17858.0	17489.1	17597.3
57.5°	12679.1	12600.4	12772.6	13977.5	17646.5	23263.1	24118.9	20902.3	20710.5	19485.9	19240.0
60°	9438.0	9462.6	9605.2	11026.6	15703.8	23656.5	28264.9	24389.4	23563.1	20892.5	20553.2
62.5°	6590.4	6541.2	6595.3	7392.1	11228.2	22082.7	31068.3	28628.8	27832.1	22490.9	22294.2
65°	4716.6	4652.6	4869.0	5355.9	6742.9	16884.2	31466.6	34274.9	33561.8	25043.5	24571.3
67.5°	3393.6	3383.7	3634.5	4519.8	4790.3	9723.3	28515.7	39389.9	38957.1	28073.1	25958.3
69°	2808.3	2813.2	3054.2	4047.7	4573.9	6639.6	24536.9	40270.2	40191.5	29637.1	25697.6
70°	2449.3	2468.9	2749.3	3767.3	4485.4	5459.2	21153.2	39404.6	39325.9	29942.0	24836.9
72.5°	1509.9	1524.6	1893.5	3019.8	4264.1	4455.9	12649.6	32238.8	32509.3	28545.2	21399.1
75°	723.0	727.9	993.5	2183.7	4111.6	4224.7	6777.3	23789.3	24359.8	23046.7	16721.9
77.5°	383.6	383.6	477.1	1160.7	3329.6	3973.9	4023.1	16780.9	17253.0	14572.6	9506.9
80°	191.8	196.7	290.2	604.9	2065.6	3895.2	3142.7	10008.5	10264.3	5946.1	2960.8
82.5°	73.8	78.7	137.7	363.9	1072.2	3290.3	2759.1	4923.1	4859.2	1391.9	723.0
85°	9.8	9.8	49.2	216.4	457.4	1450.9	2277.1	2055.8	1987.0	304.9	349.2
87.5°	0.0	0.0	9.8	63.9	137.7	423.0	880.4	565.6	629.5	83.6	172.1
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°	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1	9192.1
2.5°	9334.7	9231.5	9074.1	8921.6	8759.3	8562.6	8346.2	8267.5	8129.8	8119.9	8198.6
5°	9324.9	9157.7	8882.3	8557.7	8095.4	7746.2	7367.5	7092.0	6880.6	6742.9	6777.3
7.5°	9374.1	9172.4	8695.4	7997.0	7401.9	6708.4	6123.2	5719.9	5351.0	5169.0	5149.4
10°	9295.4	9024.9	8326.5	7347.8	6472.4	5503.5	4647.7	4106.7	3555.9	3354.2	3364.0
12.5°	9339.7	8961.0	7928.1	6678.9	5474.0	4214.9	3191.9	2454.2	1937.8	1770.6	1750.9
15°	9369.2	8823.3	7544.5	5877.2	4367.4	2872.2	1849.2	1391.9	1229.5	1200.0	1195.1
17.5°	9256.1	8656.0	7003.5	5085.4	3236.2	1746.0	1229.5	1136.1	1106.6	1086.9	1077.1
20°	9251.1	8557.7	6536.3	4273.9	2159.1	1190.2	1062.3	1027.9	983.6	968.9	968.9
22.5°	9167.5	8351.1	5975.6	3383.7	1377.1	1023.0	954.1	900.0	850.8	831.2	826.3
25°	9142.9	8110.1	5449.4	2542.7	1047.6	914.8	845.9	767.2	708.2	678.7	664.0
27.5°	9074.1	7903.5	4918.2	1790.2	914.8	816.4	727.9	644.3	575.4	531.2	526.2
30°	8828.2	7687.1	4328.0	1239.4	831.2	723.0	624.6	526.2	457.4	427.9	418.0
32.5°	8724.9	7485.5	3683.7	954.1	757.4	639.4	526.2	437.7	383.6	354.1	349.2
35°	8601.9	7190.4	3059.1	831.2	688.5	555.8	442.6	368.9	324.6	300.0	300.0
37.5°	8616.7	6954.3	2473.9	752.5	614.8	477.1	378.7	314.8	275.4	250.8	250.8
40°	8572.4	6767.4	1923.0	683.6	545.9	408.2	319.7	265.6	231.2	206.6	201.6
42.5°	8774.1	6718.3	1450.9	624.6	477.1	349.2	275.4	226.2	191.8	162.3	162.3
45°	9113.4	6797.0	1131.2	570.5	408.2	300.0	236.1	186.9	152.5	132.8	127.9
47.5°	10018.4	7106.8	885.3	526.2	349.2	260.7	196.7	152.5	123.0	103.3	98.4
50°	11331.5	7800.3	752.5	462.3	295.1	221.3	162.3	118.0	98.4	78.7	73.8
52.5°	13200.4	8965.9	683.6	408.2	245.9	182.0	127.9	93.4	73.8	59.0	54.1
55°	15236.6	10421.7	619.7	344.3	206.6	147.5	103.3	73.8	54.1	39.3	34.4
57.5°	16825.2	11680.7	565.6	285.3	167.2	118.0	78.7	54.1	39.3	24.6	19.7
60°	18561.3	12566.0	496.7	226.2	137.7	88.5	59.0	39.3	29.5	14.8	14.8
62.5°	20351.5	13603.7	408.2	177.1	108.2	68.9	44.3	29.5	19.7	4.9	4.9
65°	22840.1	14415.2	314.8	137.7	83.6	49.2	34.4	24.6	9.8	0.0	0.0
67.5°	23543.4	14016.9	231.2	108.2	59.0	34.4	24.6	14.8	4.9	0.0	0.0
69°	22840.1	12625.0	201.6	93.4	49.2	29.5	19.7	9.8	4.9	0.0	0.0
70°	21556.5	11543.0	177.1	78.7	44.3	29.5	14.8	9.8	4.9	0.0	0.0
72.5°	18030.1	8852.8	137.7	59.0	34.4	24.6	14.8	9.8	0.0	0.0	0.0
75°	13225.0	5469.0	103.3	44.3	29.5	19.7	14.8	9.8	0.0	0.0	0.0
77.5°	7087.1	1996.8	73.8	29.5	19.7	14.8	14.8	9.8	0.0	0.0	0.0
80°	1942.7	590.2	54.1	19.7	14.8	9.8	9.8	4.9	0.0	0.0	0.0
82.5°	531.2	152.5	34.4	19.7	14.8	9.8	4.9	0.0	0.0	0.0	0.0
85°	285.3	59.0	19.7	14.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	147.5	19.7	14.8	9.8	9.8	4.9	0.0	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)