

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: P482238

Luminaire Tested: **IFLD-L-SA7B-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482238
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

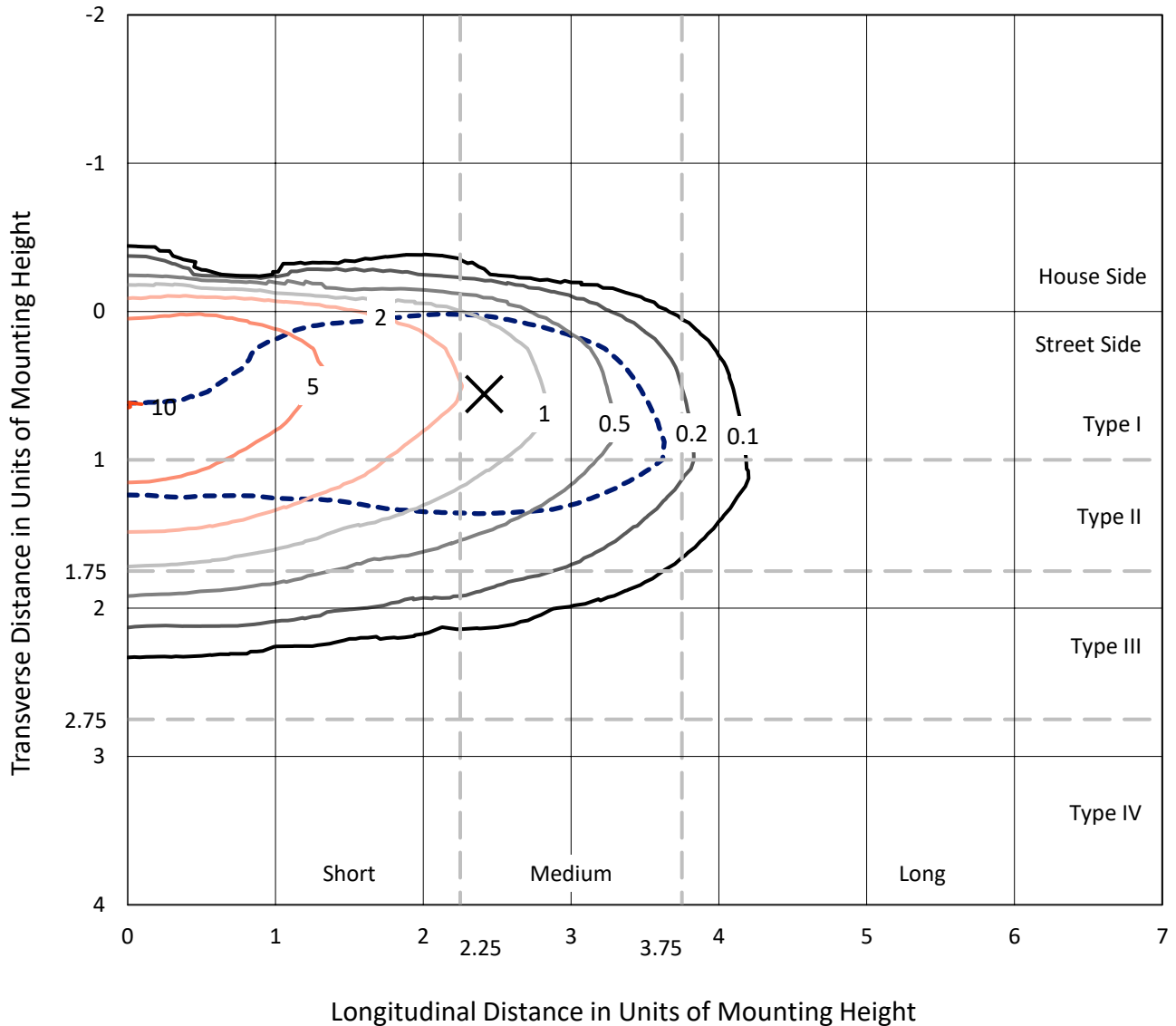
Lumens per Lamp: N/A
Luminaire Lumens: 22247.6 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 281
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: P482238
 CATALOG NUMBER: IFLD-L-SA7B-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

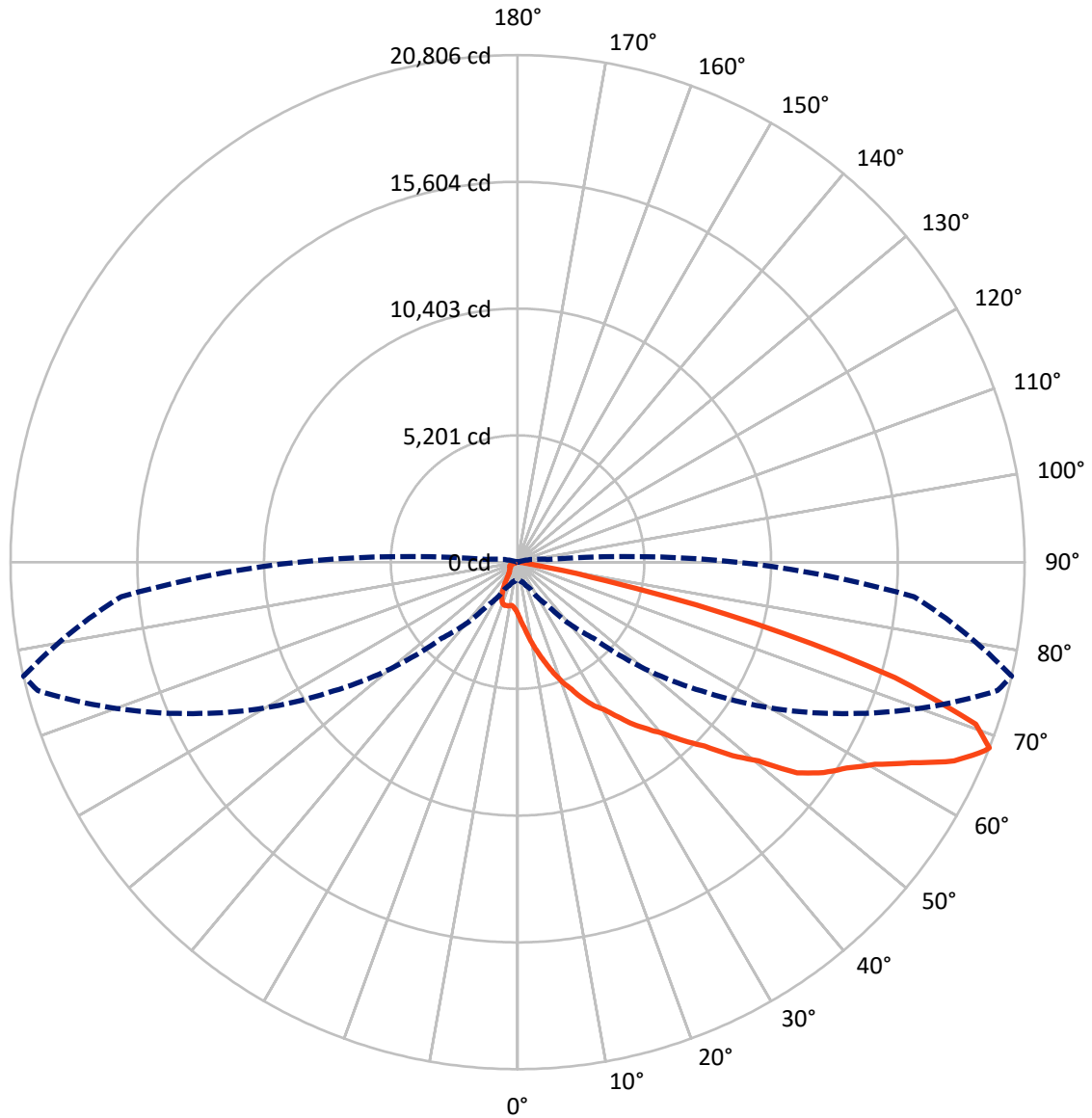
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P482238
CATALOG NUMBER: IFLD-L-SA7B-830-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P482238
 CATALOG NUMBER: IFLD-L-SA7B-830-U-T2R-HSS

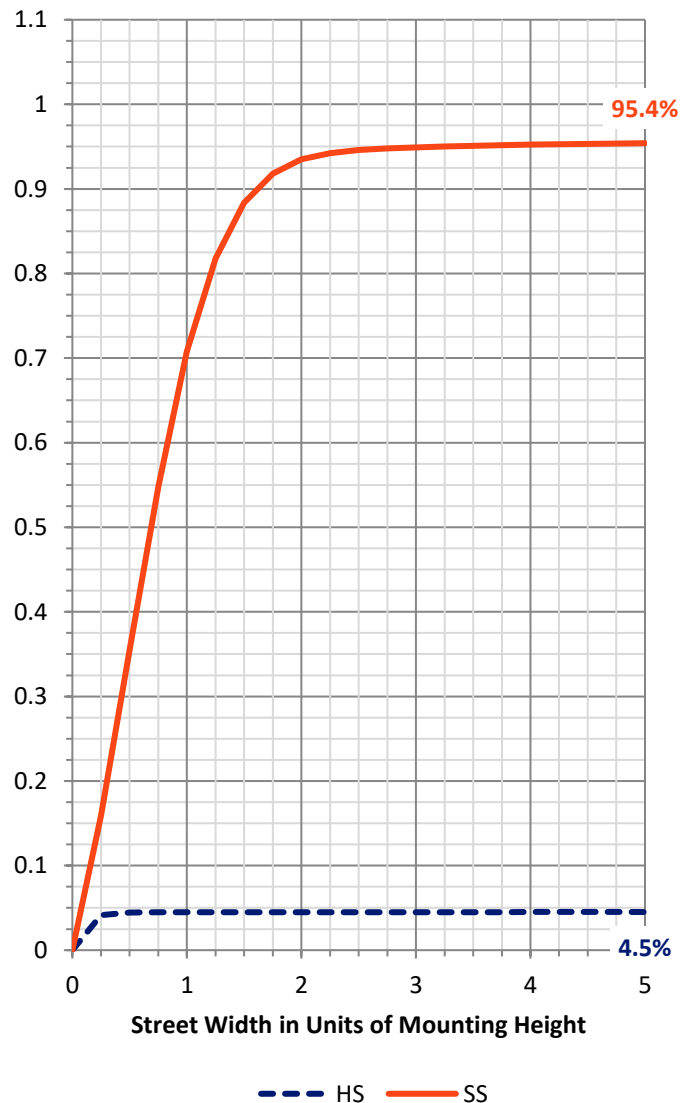
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.9	0.0	1008.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	21238.7	0.0	21238.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	22247.6	0.0	22247.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	1.1
10°-20°	917.9	4.1
20°-30°	1778.8	8.0
30°-40°	3101.1	13.9
40°-50°	4541.8	20.4
50°-60°	5335.9	24.0
60°-70°	4505.7	20.3
70°-80°	1746.5	7.9
80°-90°	71.0	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°	22247.6	100.0
0°-180°	22247.6	100.0

Coefficient of Utilization



REPORT NUMBER: P482238

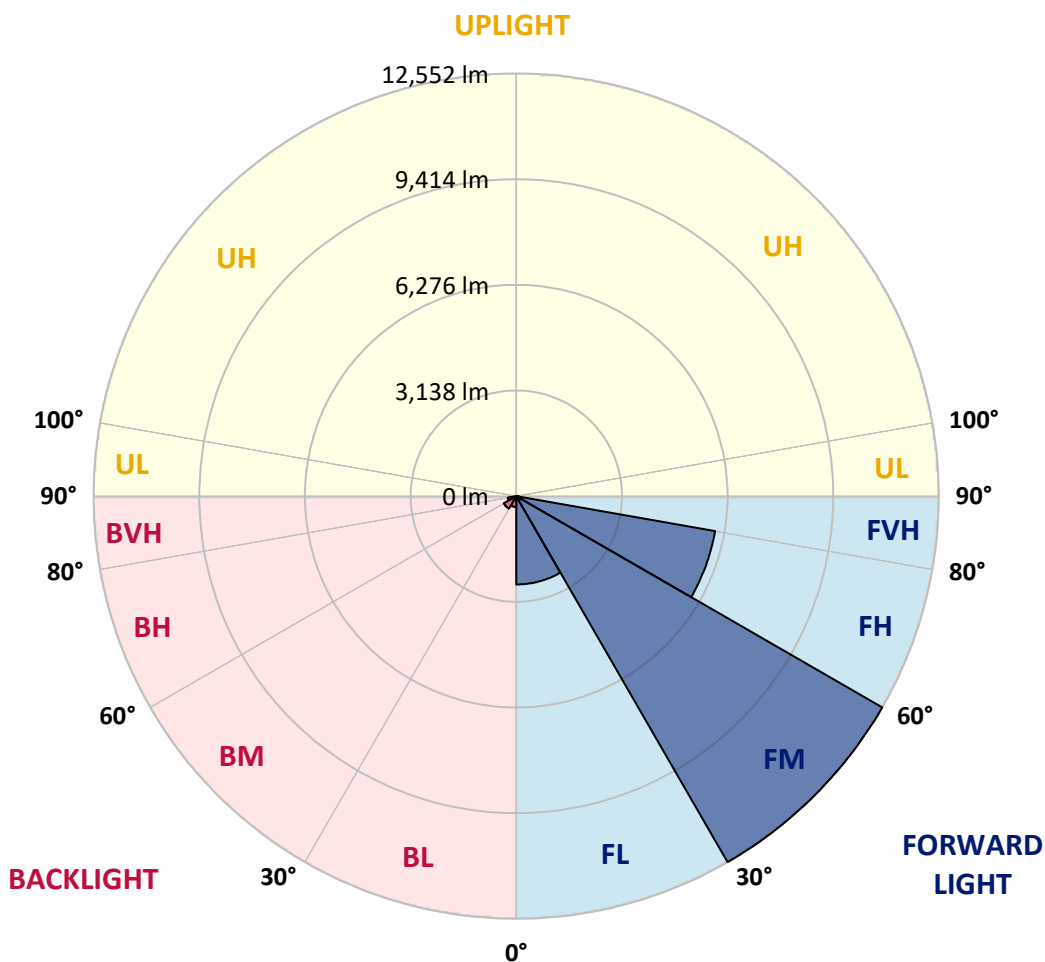
CATALOG NUMBER: IFLD-L-SA7B-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.2	11.8			
FM (30°-60°)	12552.5	56.4			
FH (60°-80°)	5997.5	27.0			G3/7500
FVH (80°-90°)	65.5	0.3			G1/100
BL (0°-30°)	322.3	1.4	B1/500		
BM (30°-60°)	426.3	1.9	B1/1000		
BH (60°-80°)	254.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	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 Medium





REPORT NUMBER: P482238

CATALOG NUMBER: IFLD-L-SA7B-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2
2.5°	3236.7	3175.4	3111.1	3092.7	2973.1	2838.3	2712.6	2590.0	2384.6	2387.7	2246.7
5°	4171.6	4095.0	4042.9	4030.6	3843.6	3610.7	3420.6	3074.3	2734.1	2657.4	2400.0
7.5°	4940.9	4916.4	4839.8	4775.4	4637.5	4352.4	4128.7	3632.1	3114.1	3028.3	2586.9
10°	5406.8	5443.6	5477.3	5394.6	5287.3	5081.9	4775.4	4239.0	3546.3	3439.0	2829.1
12.5°	5903.4	5842.1	5863.5	5931.0	5790.0	5744.0	5363.9	4864.3	4052.1	3846.7	3135.6
15°	6032.1	6056.6	6108.7	6304.9	6399.9	6268.1	5940.2	5370.0	4576.2	4291.1	3420.6
17.5°	6117.9	6105.7	6170.0	6464.3	6608.3	6734.0	6528.7	5934.0	5032.9	4778.5	3776.2
20°	6225.2	6157.8	6298.8	6485.7	6819.8	7083.4	7074.2	6501.1	5511.0	5241.3	4128.7
22.5°	6623.7	6571.6	6685.0	6703.4	6936.3	7304.1	7393.0	6963.9	6001.5	5670.4	4508.8
25°	7359.3	7454.3	7319.4	7203.0	7273.5	7515.6	7580.0	7374.6	6494.9	6191.5	4888.8
27.5°	8435.1	8422.9	8156.2	8006.0	7837.4	7806.8	7852.8	7757.8	6884.2	6666.6	5201.5
30°	9590.7	9489.5	9244.3	8882.6	8511.8	8281.9	8217.5	8119.4	7340.9	7025.2	5511.0
32.5°	10510.2	10565.4	10292.6	9820.6	9204.5	8894.9	8585.3	8478.1	7843.6	7564.7	5866.6
35°	11356.2	11282.6	11065.0	10666.5	10114.8	9615.2	9130.9	8901.0	8447.4	8171.5	6258.9
37.5°	11981.5	12073.4	11659.6	11279.5	10730.9	10317.1	9842.0	9339.3	9069.6	8701.8	6737.1
40°	12573.0	12429.0	12150.0	11800.6	11291.8	10976.1	10663.5	9878.8	9731.7	9256.6	7276.5
42.5°	12468.8	12478.0	12324.7	12042.8	11674.9	11494.1	11386.8	10534.7	10332.4	10029.0	7803.7
45°	12042.8	12079.5	12131.6	11993.7	12024.4	11843.5	12131.6	11288.7	11089.5	10767.7	8410.6
47.5°	11573.8	11635.1	11622.8	11874.2	12159.2	12220.5	12940.8	12125.5	12039.7	11861.9	9250.5
50°	10795.3	10819.8	11055.8	11512.5	11901.8	12542.4	13547.7	13038.9	13170.7	12821.3	10249.7
52.5°	9465.0	9553.9	10160.8	10813.7	11598.3	12704.8	13958.4	14396.8	14730.8	14372.2	11209.1
55°	7782.3	7904.9	8502.6	9725.5	10875.0	12459.6	14332.4	15114.0	15791.4	15248.8	11791.4
57.5°	6262.0	6274.2	6810.6	8073.5	9848.2	11978.4	14522.4	15463.4	16373.7	15938.5	12502.5
60°	4772.4	4723.3	5204.5	6298.8	8119.4	10795.3	14047.3	15641.2	17100.2	16848.8	13357.7
62.5°	3071.2	2994.6	3518.7	4585.4	6341.7	8824.4	13097.2	15644.2	18234.2	18139.2	14789.1
65°	1520.3	1468.2	1918.7	2810.7	4389.2	6749.3	11742.4	15586.0	19619.7	19681.0	16183.7
67.5°	803.1	821.4	965.5	1425.3	2531.8	4769.3	9701.0	14902.5	20327.7	20671.0	16520.9
68°	738.7	744.8	858.2	1186.2	2197.7	4422.9	9216.7	14703.3	20382.9	20805.9	16333.9
70°	600.8	610.0	649.8	744.8	1189.3	2878.1	7111.0	13011.3	19552.2	19938.4	14786.0
72.5°	478.2	505.7	530.3	570.1	698.8	1511.1	4422.9	10139.3	16153.1	16196.0	11509.4
75°	364.7	386.2	435.2	469.0	545.6	830.6	2105.7	6182.3	10599.1	10078.0	6780.0
77.5°	282.0	300.4	321.8	367.8	456.7	560.9	643.7	2623.7	4502.6	3705.7	1915.7
80°	168.6	180.8	251.3	288.1	398.5	380.1	254.4	729.5	913.4	720.3	349.4
82.5°	98.1	107.3	144.1	220.7	278.9	205.4	150.2	226.8	223.8	196.2	116.5
85°	3.1	6.1	79.7	131.8	98.1	55.2	92.0	95.0	79.7	73.6	52.1
87.5°	0.0	3.1	21.5	18.4	21.5	12.3	18.4	24.5	30.7	27.6	21.5
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: P482238

CATALOG NUMBER: IFLD-L-SA7B-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2
2.5°	2151.7	2084.3	1934.1	1820.7	1698.1	1624.5	1550.9	1505.0	1480.4	1465.1	1477.4
5°	2206.9	2065.9	1823.7	1609.2	1468.2	1373.2	1278.1	1229.1	1183.1	1158.6	1173.9
7.5°	2329.5	2118.0	1716.5	1483.5	1318.0	1170.9	1051.3	956.3	901.1	852.1	861.3
10°	2479.7	2148.6	1719.5	1409.9	1170.9	937.9	769.3	649.8	582.4	539.5	536.4
12.5°	2632.9	2268.2	1731.8	1336.4	990.0	705.0	505.7	416.9	377.0	355.6	355.6
15°	2865.9	2375.4	1701.1	1201.5	750.9	459.8	346.4	315.7	300.4	282.0	285.1
17.5°	3068.2	2547.1	1685.8	999.2	514.9	331.0	288.1	254.4	239.1	220.7	220.7
20°	3341.0	2654.4	1603.0	772.4	355.6	275.9	232.9	202.3	177.8	162.5	165.5
22.5°	3589.2	2737.1	1455.9	527.2	272.8	217.6	171.6	141.0	119.5	101.1	104.2
25°	3859.0	2819.9	1241.4	324.9	193.1	134.9	92.0	67.4	46.0	33.7	33.7
27.5°	4052.1	2844.4	962.4	193.1	116.5	61.3	21.5	3.1	0.0	0.0	0.0
30°	4248.2	2853.6	665.1	104.2	46.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4472.0	2850.5	416.9	55.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	4643.6	2798.4	199.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4904.2	2721.8	61.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5201.5	2583.9	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5468.1	2442.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5771.6	2268.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6304.9	2194.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7000.7	2136.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7429.8	1964.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7653.5	1787.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7984.6	1701.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8475.0	1707.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9241.3	1793.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9664.2	1707.3	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9305.6	1367.0	58.2	15.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	8996.1	1256.7	58.2	15.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	7435.9	818.4	55.2	15.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5416.0	453.6	46.0	12.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3150.9	226.8	33.7	12.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	821.4	113.4	27.6	15.3	9.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	162.5	73.6	24.5	18.4	12.3	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	76.6	52.1	24.5	18.4	15.3	9.2	3.1	0.0	0.0	0.0	0.0
85°	39.8	24.5	24.5	18.4	18.4	12.3	6.1	0.0	0.0	0.0	0.0
87.5°	18.4	9.2	9.2	9.2	9.2	6.1	3.1	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)