

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: P482237

Luminaire Tested: **IFLD-L-SA7A-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482237
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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

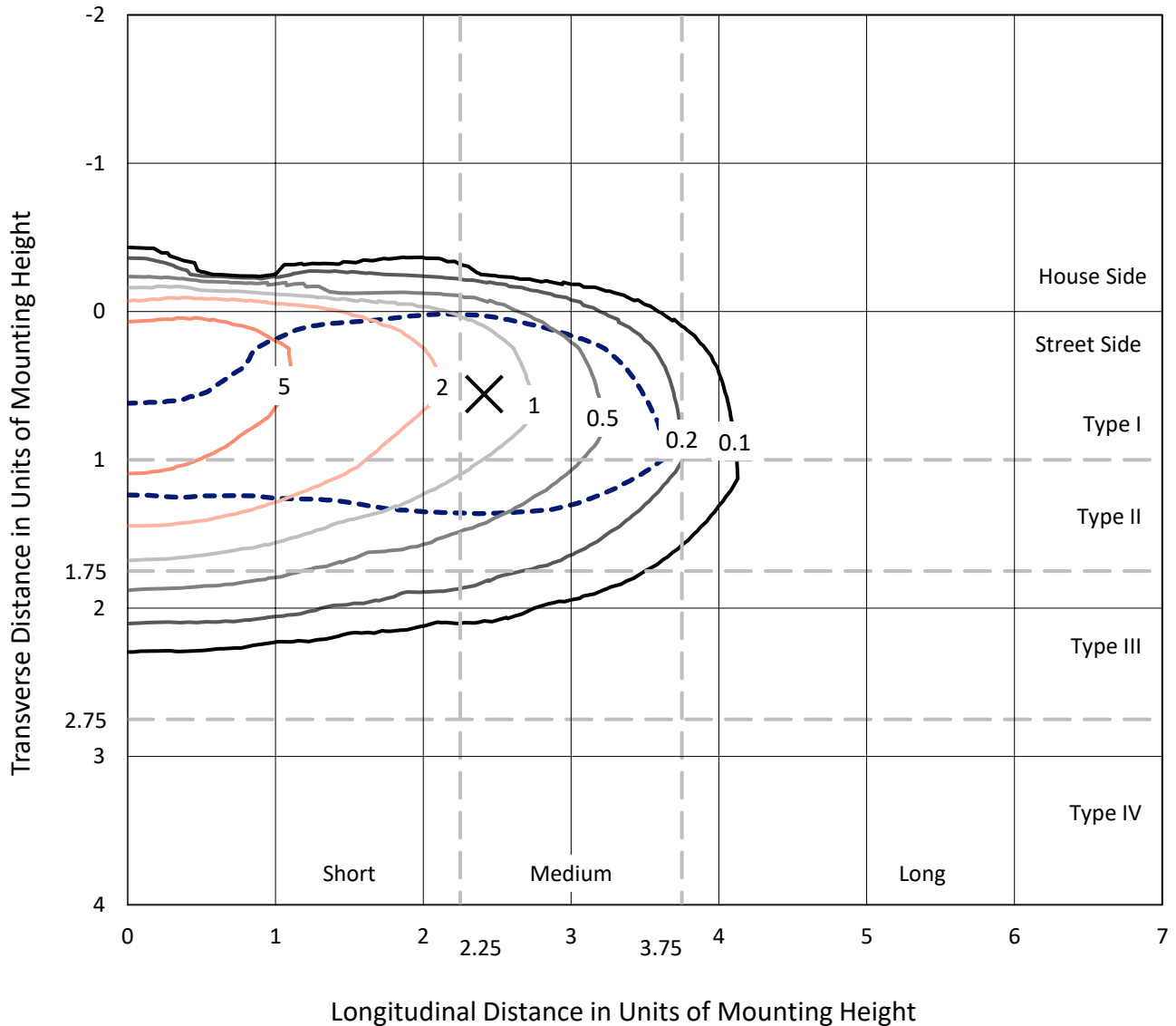
Lumens per Lamp: N/A
Luminaire Lumens: 19554.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6
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

REPORT NUMBER: P482237
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

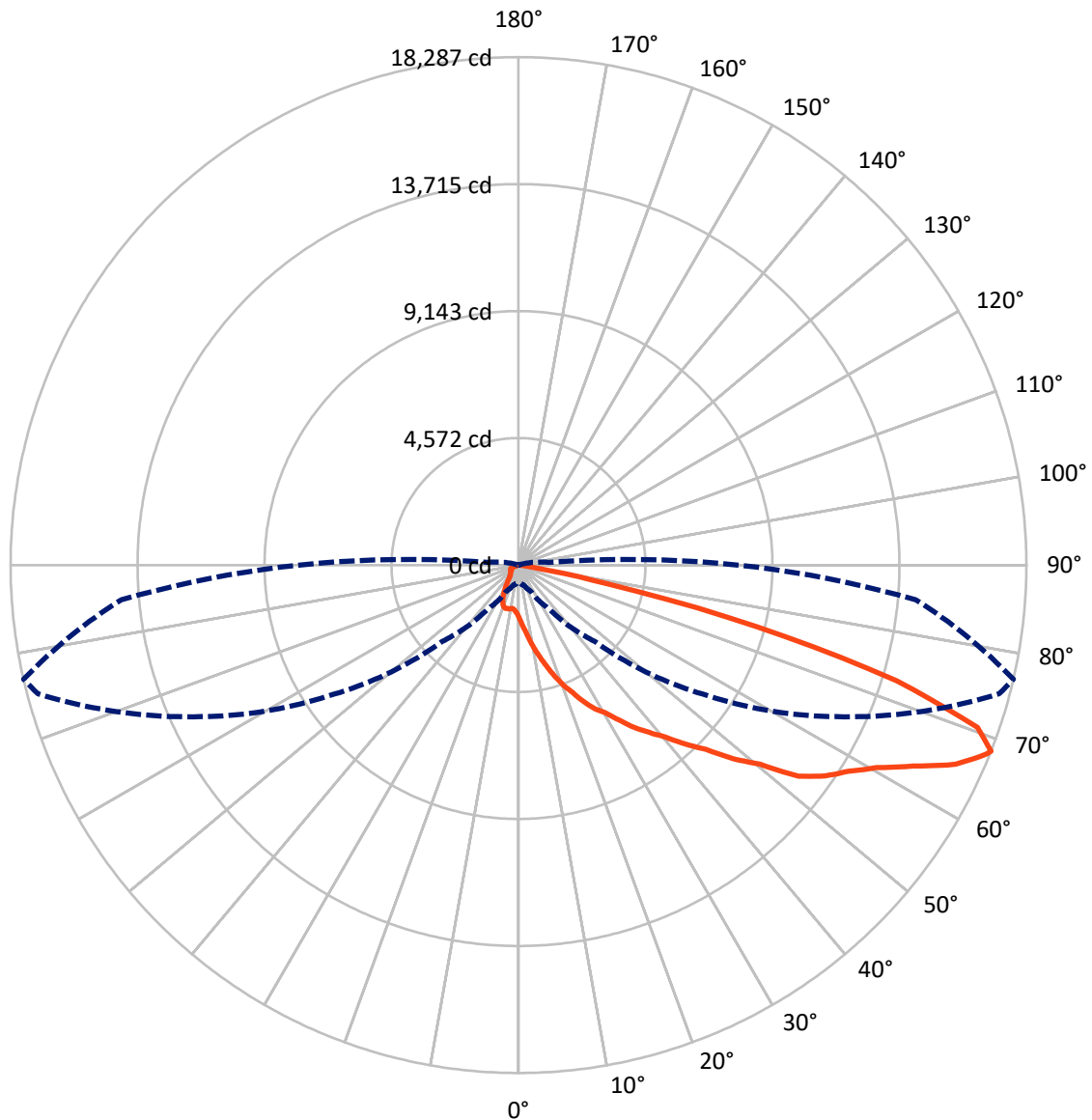
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P482237
CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482237
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R-HSS

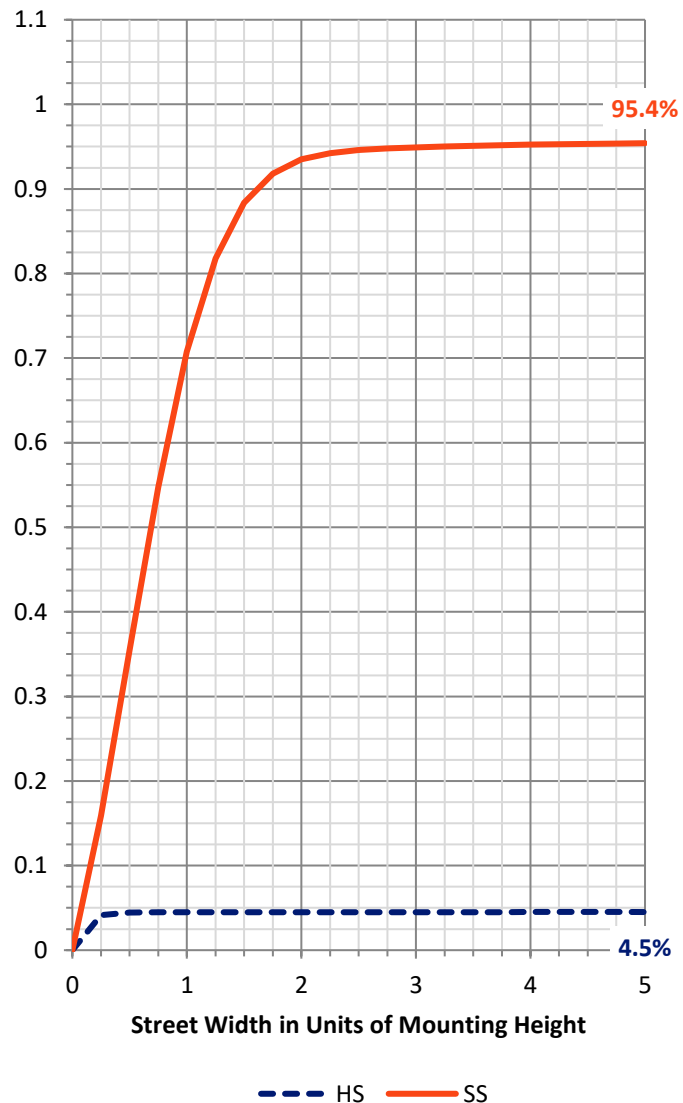
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.8	0.0	886.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	18667.3	0.0	18667.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	19554.1	0.0	19554.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	1.1
10°-20°	806.7	4.1
20°-30°	1563.5	8.0
30°-40°	2725.6	13.9
40°-50°	3991.9	20.4
50°-60°	4689.9	24.0
60°-70°	3960.2	20.3
70°-80°	1535.1	7.9
80°-90°	62.4	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°	19554.1	100.0
0°-180°	19554.1	100.0

Coefficient of Utilization



REPORT NUMBER: P482237

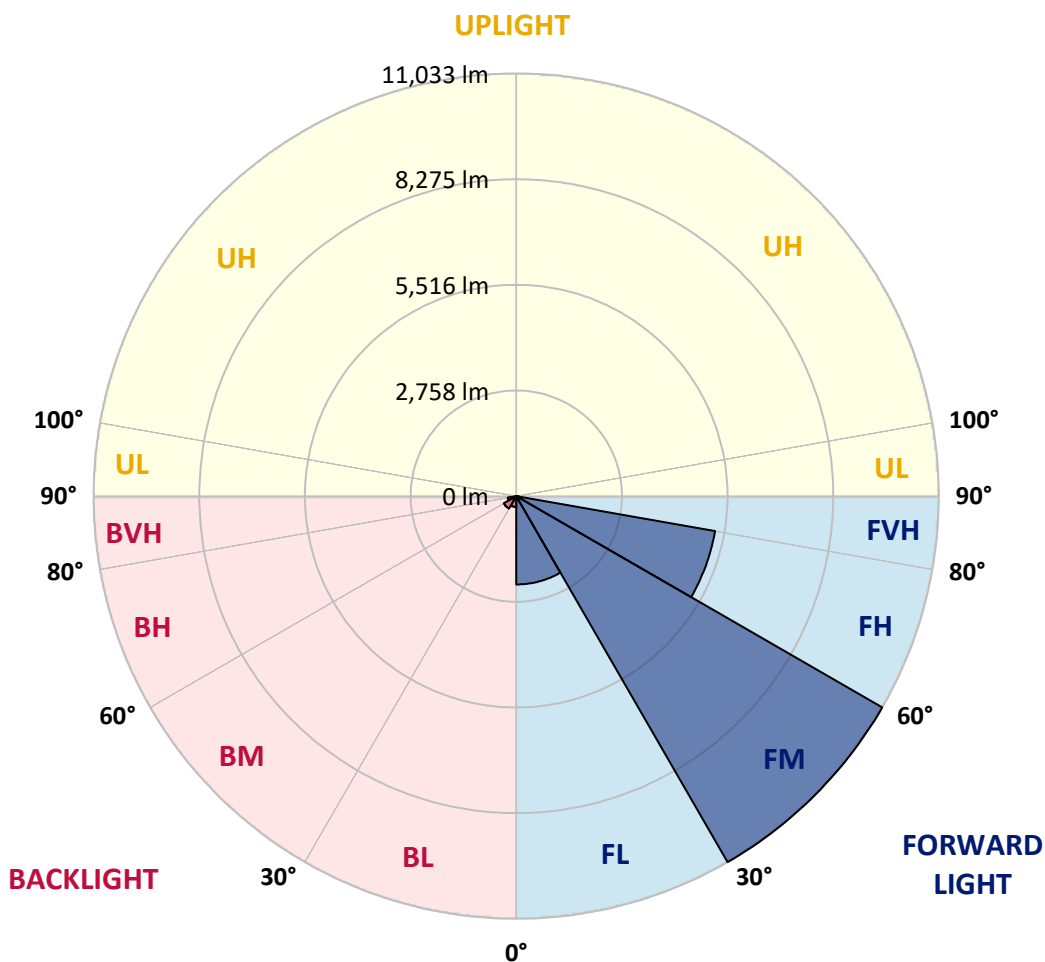
CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.6	11.8			
FM (30°-60°)	11032.8	56.4			
FH (60°-80°)	5271.4	27.0			G3/7500
FVH (80°-90°)	57.6	0.3			G1/100
BL (0°-30°)	283.3	1.4	B1/500		
BM (30°-60°)	374.7	1.9	B1/1000		
BH (60°-80°)	223.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	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: P482237

CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3
2.5°	2844.9	2791.0	2734.4	2718.2	2613.2	2494.6	2384.2	2276.4	2095.9	2098.6	1974.7
5°	3666.5	3599.2	3553.4	3542.6	3378.3	3173.5	3006.5	2702.1	2403.1	2335.7	2109.4
7.5°	4342.7	4321.2	4253.8	4197.3	4076.0	3825.5	3628.8	3192.4	2737.1	2661.7	2273.7
10°	4752.2	4784.6	4814.2	4741.4	4647.2	4466.7	4197.3	3725.8	3117.0	3022.7	2486.6
12.5°	5188.7	5134.8	5153.6	5212.9	5089.0	5048.6	4714.5	4275.4	3561.5	3381.0	2756.0
15°	5301.8	5323.4	5369.1	5541.6	5625.1	5509.2	5221.0	4719.9	4022.1	3771.6	3006.5
17.5°	5377.2	5366.5	5423.0	5681.7	5808.3	5918.7	5738.2	5215.6	4423.6	4200.0	3319.0
20°	5471.5	5412.3	5536.2	5700.5	5994.2	6225.8	6217.8	5714.0	4843.8	4606.7	3628.8
22.5°	5821.7	5775.9	5875.6	5891.8	6096.5	6419.8	6497.9	6120.8	5274.9	4983.9	3962.9
25°	6468.3	6551.8	6433.3	6330.9	6392.9	6605.7	6662.3	6481.8	5708.6	5441.9	4296.9
27.5°	7413.9	7403.1	7168.7	7036.7	6888.6	6861.6	6902.0	6818.5	6050.7	5859.5	4571.7
30°	8429.5	8340.6	8125.1	7807.2	7481.2	7279.2	7222.6	7136.4	6452.1	6174.7	4843.8
32.5°	9237.7	9286.2	9046.5	8631.6	8090.1	7818.0	7545.9	7451.6	6894.0	6648.8	5156.3
35°	9981.3	9916.6	9725.4	9375.1	8890.2	8451.1	8025.4	7823.4	7424.7	7182.2	5501.2
37.5°	10530.9	10611.7	10248.0	9913.9	9431.7	9068.0	8650.4	8208.6	7971.6	7648.3	5921.4
40°	11050.8	10924.2	10679.0	10371.9	9924.7	9647.2	9372.4	8682.8	8553.5	8135.9	6395.6
42.5°	10959.2	10967.3	10832.6	10584.7	10261.5	10102.5	10008.2	9259.3	9081.5	8814.8	6858.9
45°	10584.7	10617.1	10662.9	10541.6	10568.6	10409.6	10662.9	9922.0	9746.9	9464.0	7392.3
47.5°	10172.6	10226.4	10215.7	10436.6	10687.1	10741.0	11374.1	10657.5	10582.0	10425.8	8130.5
50°	9488.3	9509.8	9717.3	10118.7	10460.8	11023.9	11907.5	11460.3	11576.1	11269.0	9008.7
52.5°	8319.1	8397.2	8930.6	9504.4	10194.1	11166.6	12268.5	12653.7	12947.4	12632.2	9852.0
55°	6840.1	6947.8	7473.2	8548.1	9558.3	10951.1	12597.2	13284.1	13879.5	13402.7	10363.8
57.5°	5503.8	5514.6	5986.1	7096.0	8655.8	10528.2	12764.2	13591.2	14391.4	14008.8	10988.8
60°	4194.6	4151.5	4574.4	5536.2	7136.4	9488.3	12346.6	13747.5	15029.8	14808.9	11740.5
62.5°	2699.4	2632.0	3092.7	4030.2	5573.9	7756.0	11511.5	13750.2	16026.6	15943.1	12998.6
65°	1336.2	1290.4	1686.4	2470.4	3857.8	5932.2	10320.7	13699.0	17244.3	17298.2	14224.3
67.5°	705.8	722.0	848.6	1252.7	2225.2	4191.9	8526.5	13098.2	17866.6	18168.4	14520.7
68°	649.3	654.6	754.3	1042.6	1931.6	3887.4	8100.9	12923.1	17915.1	18286.9	14356.3
70°	528.0	536.1	571.1	654.6	1045.3	2529.7	6250.1	11436.0	17185.0	17524.5	12995.9
72.5°	420.3	444.5	466.1	501.1	614.2	1328.1	3887.4	8911.8	14197.4	14235.1	10116.0
75°	320.6	339.4	382.5	412.2	479.5	730.1	1850.8	5433.8	9315.9	8857.9	5959.1
77.5°	247.8	264.0	282.9	323.3	401.4	493.0	565.7	2306.1	3957.5	3257.1	1683.8
80°	148.2	158.9	220.9	253.2	350.2	334.1	223.6	641.2	802.8	633.1	307.1
82.5°	86.2	94.3	126.6	194.0	245.2	180.5	132.0	199.4	196.7	172.4	102.4
85°	2.7	5.4	70.0	115.8	86.2	48.5	80.8	83.5	70.0	64.7	45.8
87.5°	0.0	2.7	18.9	16.2	18.9	10.8	16.2	21.6	26.9	24.2	18.9
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: P482237

CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3	1872.3
2.5°	1891.2	1831.9	1699.9	1600.2	1492.5	1427.8	1363.2	1322.8	1301.2	1287.7	1298.5
5°	1939.7	1815.8	1602.9	1414.4	1290.4	1206.9	1123.4	1080.3	1039.9	1018.3	1031.8
7.5°	2047.4	1861.6	1508.6	1303.9	1158.4	1029.1	924.0	840.5	792.0	748.9	757.0
10°	2179.4	1888.5	1511.3	1239.2	1029.1	824.4	676.2	571.1	511.9	474.1	471.5
12.5°	2314.1	1993.6	1522.1	1174.6	870.2	619.6	444.5	366.4	331.4	312.5	312.5
15°	2518.9	2087.9	1495.2	1056.0	660.0	404.1	304.4	277.5	264.0	247.8	250.5
17.5°	2696.7	2238.7	1481.7	878.2	452.6	291.0	253.2	223.6	210.1	194.0	194.0
20°	2936.5	2333.0	1409.0	678.9	312.5	242.5	204.7	177.8	156.3	142.8	145.5
22.5°	3154.7	2405.7	1279.7	463.4	239.8	191.3	150.9	123.9	105.1	88.9	91.6
25°	3391.8	2478.5	1091.1	285.6	169.7	118.5	80.8	59.3	40.4	29.6	29.6
27.5°	3561.5	2500.0	845.9	169.7	102.4	53.9	18.9	2.7	0.0	0.0	0.0
30°	3733.9	2508.1	584.6	91.6	40.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3930.6	2505.4	366.4	48.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	4081.4	2459.6	175.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4310.4	2392.3	53.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4571.7	2271.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4806.1	2147.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5072.8	1993.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5541.6	1928.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6153.1	1877.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6530.3	1726.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6726.9	1570.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7017.9	1495.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7448.9	1500.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8122.4	1576.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8494.2	1500.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8179.0	1201.5	51.2	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	7906.9	1104.5	51.2	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	6535.7	719.3	48.5	13.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4760.3	398.7	40.4	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2769.4	199.4	29.6	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	722.0	99.7	24.2	13.5	8.1	2.7	0.0	0.0	0.0	0.0	0.0
80°	142.8	64.7	21.6	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	67.4	45.8	21.6	16.2	13.5	8.1	2.7	0.0	0.0	0.0	0.0
85°	35.0	21.6	21.6	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0
87.5°	16.2	8.1	8.1	8.1	8.1	5.4	2.7	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)