

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: P484577

Luminaire Tested: **IFLD-L-SA7A-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484577
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

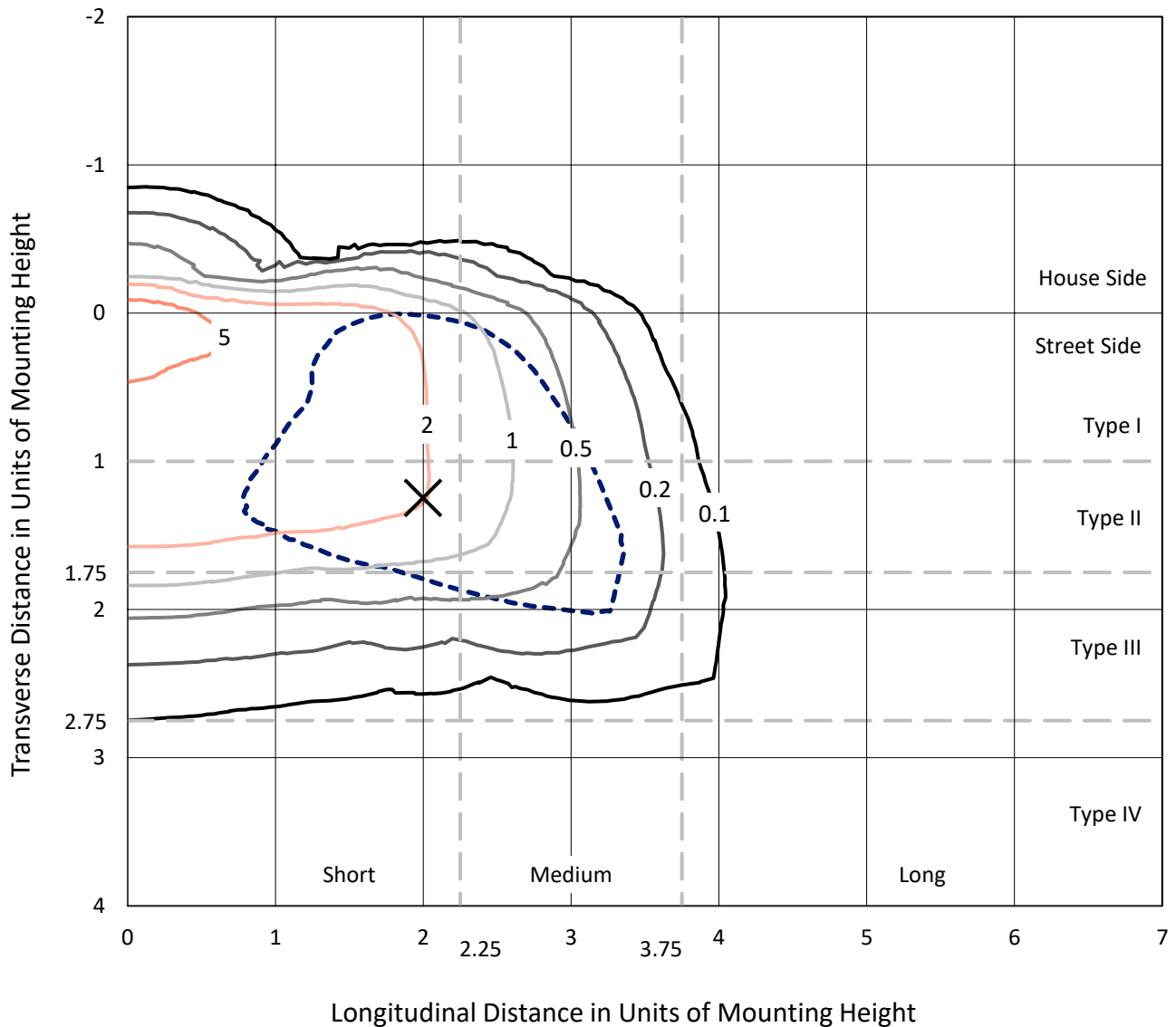
Lumens per Lamp: N/A
Luminaire Lumens: 20799.8 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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: P484577
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

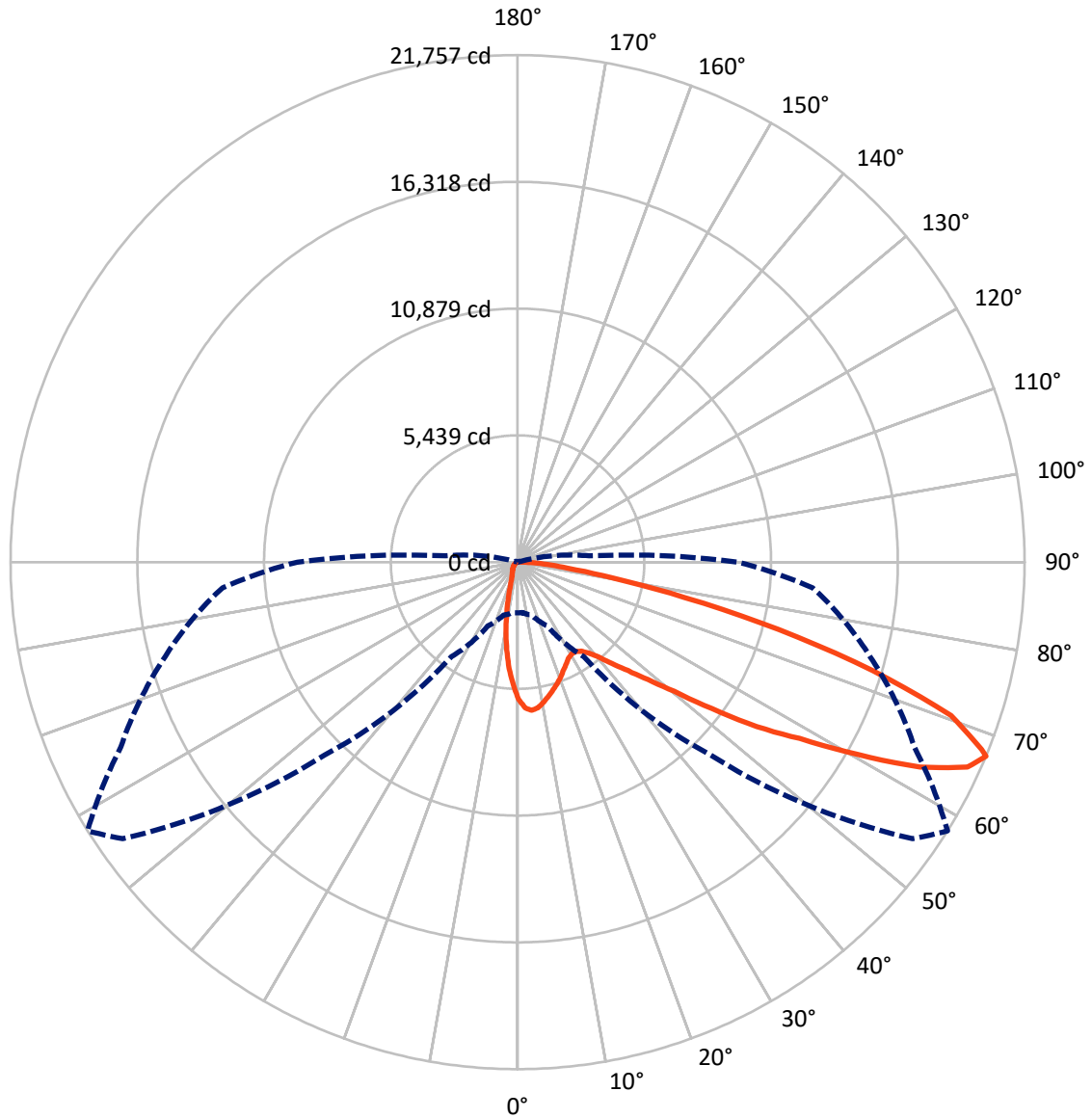
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

REPORT NUMBER: P484577
CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484577
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3-HSS

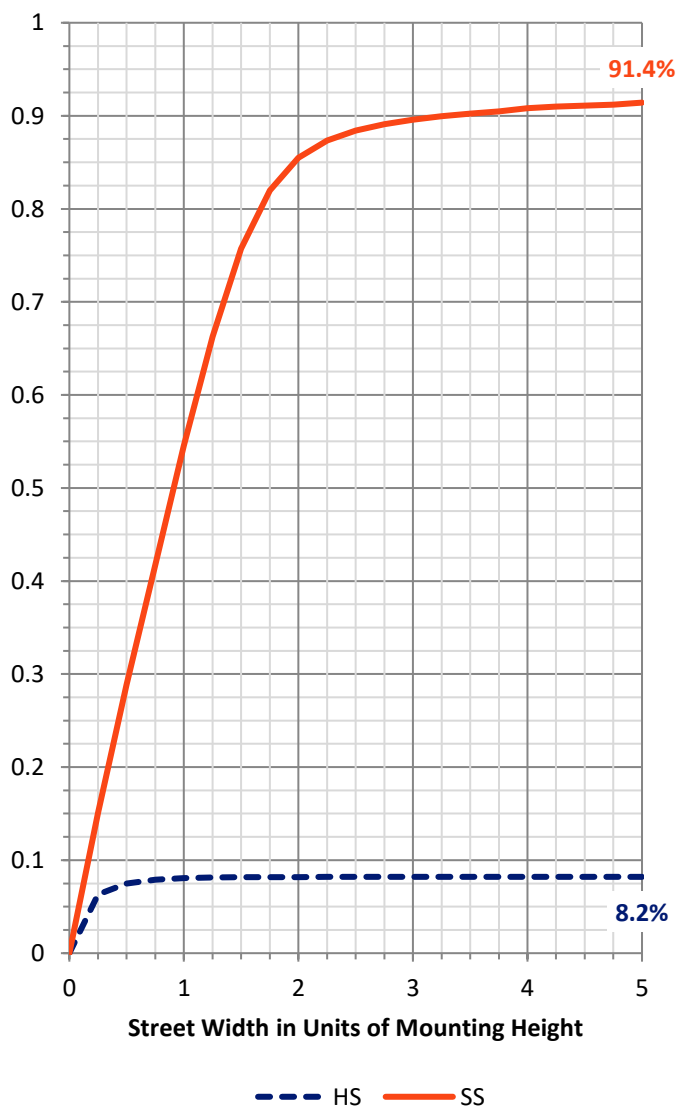
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.2	0.0	1719.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	19080.6	0.0	19080.6
	% Fixture	91.7	0.0	91.7
Total	Lumens	20799.8	0.0	20799.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	2.2
10°-20°	969.8	4.7
20°-30°	1286.8	6.2
30°-40°	1783.0	8.6
40°-50°	2909.4	14.0
50°-60°	5113.8	24.6
60°-70°	5663.9	27.2
70°-80°	2347.1	11.3
80°-90°	258.4	1.2
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°	20799.8	100.0
0°-180°	20799.8	100.0

Coefficient of Utilization



REPORT NUMBER: P484577

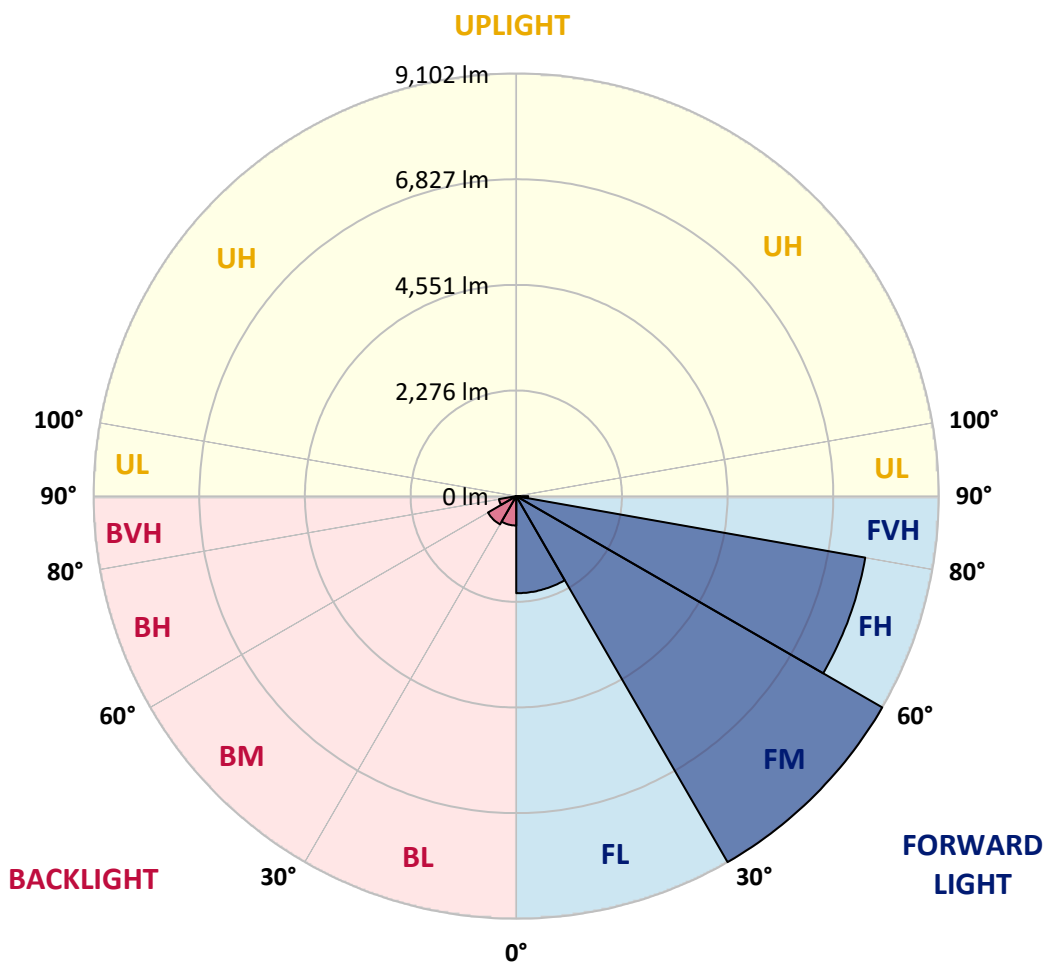
CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2091.0	10.1			
FM (30°-60°)	9102.4	43.8			
FH (60°-80°)	7633.1	36.7			G4/12000
FVH (80°-90°)	254.1	1.2			G3/500
BL (0°-30°)	633.2	3.0	B2/1000		
BM (30°-60°)	703.8	3.4	B1/1000		
BH (60°-80°)	378.0	1.8	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P484577

CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9
2.5°	6412.0	6434.1	6453.4	6417.5	6447.9	6403.7	6290.5	6265.7	6246.3	6077.9	5981.2
5°	6409.3	6384.4	6403.7	6420.3	6378.9	6412.0	6384.4	6387.2	6312.6	6160.7	5890.1
7.5°	5981.2	5970.2	5981.2	6061.3	6152.4	6224.2	6265.7	6307.1	6257.4	6030.9	5768.6
10°	5404.1	5459.3	5489.7	5633.3	5774.1	5906.7	6036.5	6113.8	6100.0	6008.9	5636.1
12.5°	5000.9	4984.4	5094.8	5188.7	5329.5	5597.4	5823.8	5895.6	5978.5	5851.5	5462.1
15°	4628.1	4584.0	4650.2	4813.2	5053.4	5266.0	5583.6	5691.3	5796.2	5829.4	5368.2
17.5°	4271.9	4294.0	4363.0	4509.4	4735.8	5034.1	5332.3	5486.9	5738.2	5694.1	5227.4
20°	4100.7	4147.7	4172.5	4247.1	4404.5	4702.7	5147.3	5271.6	5539.4	5691.3	5089.3
22.5°	4109.0	4109.0	4051.0	4095.2	4238.8	4470.7	4896.0	5034.1	5459.3	5547.7	4965.0
25°	4197.4	4142.1	4144.9	4092.4	4153.2	4280.2	4669.6	4838.0	5296.4	5561.5	4898.8
27.5°	4263.6	4252.6	4236.0	4222.2	4144.9	4164.2	4520.4	4658.5	5232.9	5544.9	4796.6
30°	4503.9	4454.2	4437.6	4407.2	4305.1	4211.2	4401.7	4575.7	5183.2	5583.6	4738.6
32.5°	4705.5	4713.7	4727.6	4639.2	4550.8	4318.9	4434.8	4572.9	5147.3	5672.0	4796.6
35°	4959.5	4995.4	5000.9	4973.3	4879.4	4650.2	4572.9	4691.7	5208.0	5829.4	4802.1
37.5°	5346.1	5307.5	5412.4	5423.4	5357.2	5053.4	4893.2	4940.2	5387.5	6080.7	5012.0
40°	5597.4	5644.3	5840.4	5961.9	5848.7	5572.6	5357.2	5348.9	5647.1	6475.5	5271.6
42.5°	5876.3	5981.2	6196.6	6459.0	6445.2	6188.3	5970.2	5934.3	6108.3	7047.1	5683.0
45°	6257.4	6351.3	6652.3	7047.1	7262.5	7044.4	6715.8	6644.0	6668.8	7825.9	6384.4
47.5°	6889.7	6864.9	7298.4	7687.8	8041.3	7872.8	7732.0	7522.1	7502.8	8742.7	7353.7
50°	7605.0	7599.4	7986.0	8427.9	8836.6	9165.2	8930.4	8701.2	8706.8	9988.1	8494.1
52.5°	8284.3	8392.0	8808.9	9248.0	9949.4	10302.9	10529.3	10438.2	9999.1	11100.9	9714.7
55°	8643.3	8737.1	9151.4	9908.0	11015.3	11923.8	12536.9	12459.5	11611.8	12354.6	10918.7
57.5°	8303.6	8367.1	8927.7	9919.0	11760.9	13787.8	14376.0	14279.3	13279.7	13312.8	12373.9
60°	6881.5	6980.9	7814.8	8977.4	11470.9	15223.7	16908.2	16761.8	14798.5	14525.1	13310.1
62.5°	4766.2	4832.5	5517.3	6964.3	10095.8	15723.5	19299.6	19379.7	16400.1	15469.5	13589.0
65°	3087.3	3081.7	3473.9	4454.2	7154.8	14210.3	20713.4	21210.5	17946.5	15613.1	13503.4
67°	2181.5	2173.2	2358.3	3021.0	4954.0	11708.4	20688.6	21757.2	18786.0	15654.5	12710.8
67.5°	2013.1	2004.8	2181.5	2778.0	4470.7	10888.3	20379.3	21475.6	19081.4	15596.5	12362.9
70°	1563.0	1540.9	1607.1	1913.7	2604.0	7041.6	17441.1	19727.6	18468.4	14149.5	9872.1
72.5°	1129.4	1154.3	1259.2	1571.2	2043.5	3788.7	13293.5	15952.7	15425.3	10664.6	6274.0
75°	787.0	809.1	977.5	1281.3	1875.0	2297.5	8988.4	11570.4	10744.7	5887.4	2673.1
77.5°	411.5	439.1	624.1	1024.5	1703.8	1778.4	5371.0	7337.1	5694.1	2095.9	737.3
80°	190.5	204.3	312.0	726.3	1424.9	1563.0	3131.5	4081.4	2278.2	469.4	254.1
82.5°	82.8	91.1	143.6	417.0	1010.7	1366.9	1938.5	2140.1	825.7	151.9	157.4
85°	16.6	19.3	55.2	220.9	488.8	828.4	1361.4	1270.3	414.2	74.6	124.3
87.5°	0.0	0.0	13.8	63.5	132.5	245.8	577.1	577.1	127.0	38.7	46.9
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: P484577
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9
2.5°	5895.6	5796.2	5578.1	5376.5	5232.9	5070.0	4854.6	4757.9	4722.0	4672.3	4597.8
5°	5741.0	5619.5	5246.7	4871.1	4459.7	4147.7	3816.3	3623.0	3476.6	3385.5	3355.1
7.5°	5522.8	5274.3	4771.7	4169.7	3636.8	3172.9	2670.3	2330.6	2112.5	2024.1	1941.3
10°	5348.9	5025.8	4260.9	3512.5	2802.8	2123.5	1557.4	1259.2	1032.8	947.2	936.1
12.5°	5122.4	4735.8	3783.1	2841.5	1949.6	1264.7	861.6	748.3	684.8	673.8	665.5
15°	4934.7	4473.5	3330.3	2200.9	1262.0	789.8	671.0	643.4	626.8	621.3	624.1
17.5°	4807.6	4191.8	2866.4	1601.6	831.2	646.2	618.6	602.0	593.7	590.9	582.7
20°	4556.3	3954.4	2408.0	1121.1	648.9	596.5	574.4	560.6	552.3	549.5	546.8
22.5°	4412.8	3653.4	1949.6	781.5	577.1	541.2	524.7	513.6	499.8	491.5	488.8
25°	4269.2	3432.4	1540.9	607.5	524.7	499.8	475.0	461.2	439.1	428.0	425.3
27.5°	4100.7	3214.3	1187.4	527.4	472.2	447.4	422.5	400.4	372.8	361.7	356.2
30°	4004.1	3001.7	894.7	472.2	433.5	400.4	370.0	342.4	312.0	292.7	287.2
32.5°	3954.4	2808.4	671.0	430.8	392.1	356.2	317.6	284.4	256.8	240.2	237.5
35°	3893.6	2620.6	527.4	392.1	353.5	314.8	276.1	243.0	215.4	201.6	196.1
37.5°	3957.1	2510.1	439.1	361.7	323.1	278.9	237.5	204.3	182.3	168.4	165.7
40°	4131.1	2419.0	381.1	334.1	292.7	245.8	207.1	174.0	154.6	143.6	138.1
42.5°	4398.9	2419.0	345.2	306.5	265.1	215.4	176.7	151.9	132.5	121.5	118.7
45°	4885.0	2493.6	314.8	278.9	232.0	185.0	151.9	127.0	107.7	96.6	93.9
47.5°	5567.0	2664.8	289.9	254.1	207.1	162.9	132.5	107.7	88.4	77.3	74.6
50°	6483.8	3054.1	265.1	223.7	185.0	140.8	110.5	85.6	69.0	58.0	55.2
52.5°	7627.0	3606.4	240.2	207.1	157.4	118.7	88.4	69.0	52.5	44.2	41.4
55°	8836.6	4283.0	209.9	185.0	135.3	99.4	71.8	52.5	38.7	33.1	30.4
57.5°	10054.3	4804.9	185.0	160.2	110.5	80.1	58.0	41.4	27.6	22.1	19.3
60°	10700.5	4854.6	160.2	132.5	88.4	63.5	44.2	30.4	19.3	13.8	11.0
62.5°	10799.9	4412.8	138.1	107.7	71.8	49.7	30.4	22.1	11.0	5.5	5.5
65°	10289.1	3678.2	118.7	85.6	55.2	35.9	22.1	13.8	5.5	2.8	0.0
67°	9460.6	3081.7	102.2	71.8	44.2	27.6	16.6	8.3	2.8	0.0	0.0
67.5°	9140.3	2916.1	96.6	66.3	41.4	24.9	13.8	8.3	2.8	0.0	0.0
70°	7094.1	2082.1	71.8	46.9	30.4	19.3	11.0	5.5	0.0	0.0	0.0
72.5°	4346.5	1217.8	55.2	33.1	22.1	13.8	8.3	2.8	0.0	0.0	0.0
75°	1822.5	419.7	46.9	24.9	16.6	8.3	5.5	2.8	0.0	0.0	0.0
77.5°	475.0	157.4	33.1	16.6	11.0	8.3	5.5	2.8	0.0	0.0	0.0
80°	193.3	71.8	22.1	11.0	11.0	8.3	5.5	2.8	0.0	0.0	0.0
82.5°	127.0	33.1	13.8	11.0	8.3	5.5	2.8	0.0	0.0	0.0	0.0
85°	96.6	19.3	8.3	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	41.4	11.0	8.3	5.5	5.5	0.0	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)