

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: P484531

Luminaire Tested: **IFLD-S-SA6D-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484531
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

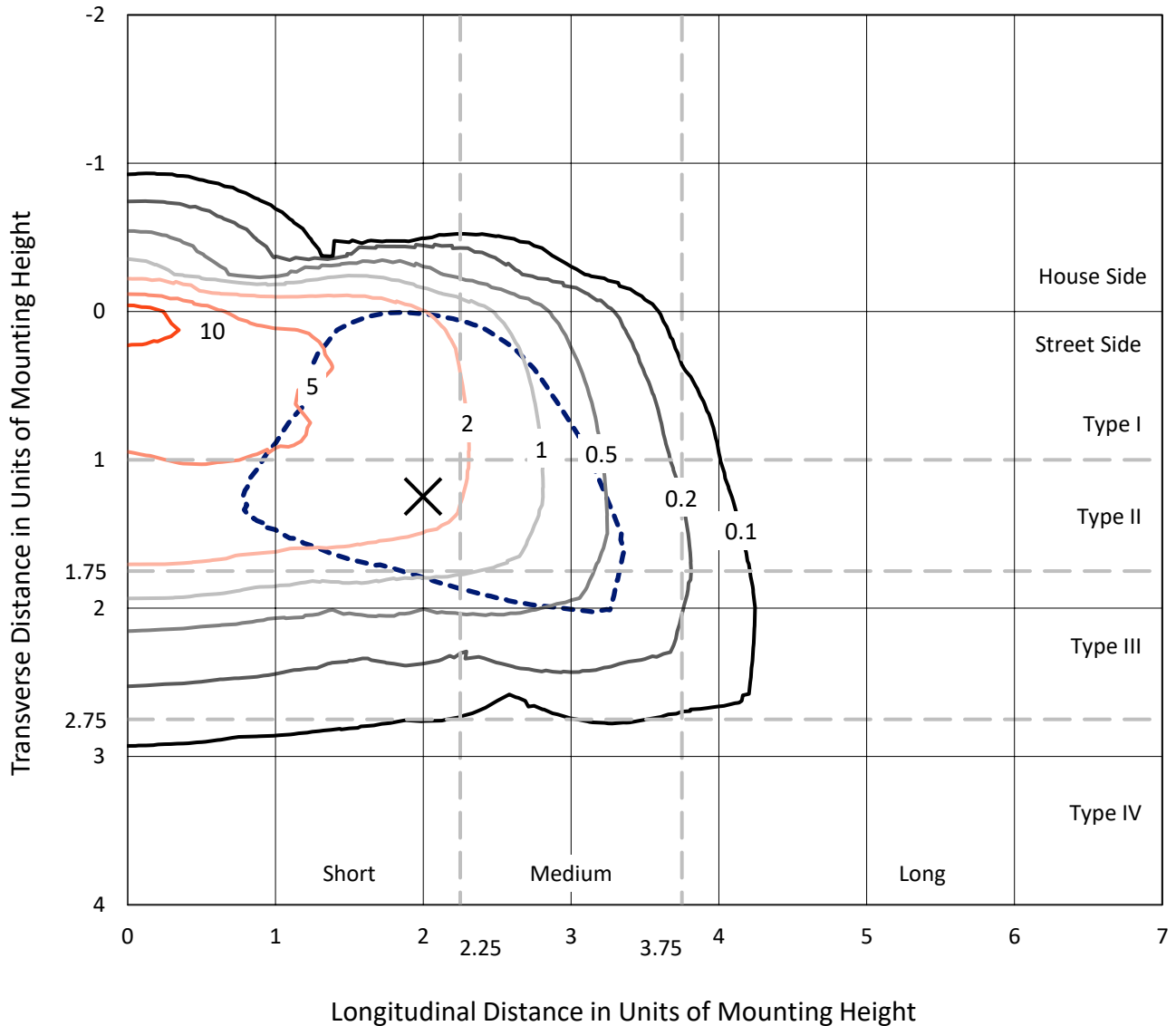
Lumens per Lamp: N/A
Luminaire Lumens: 28108 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

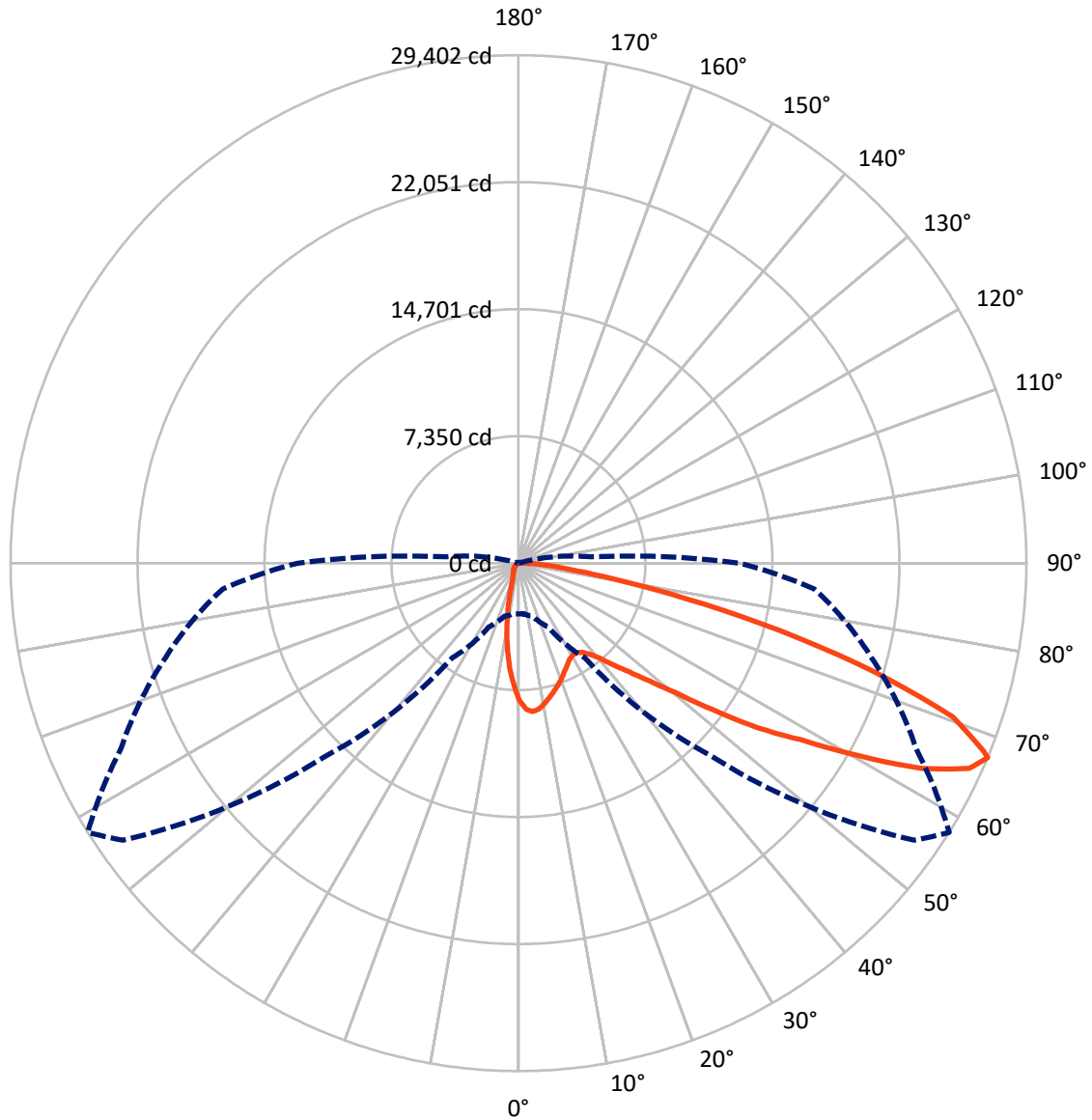
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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



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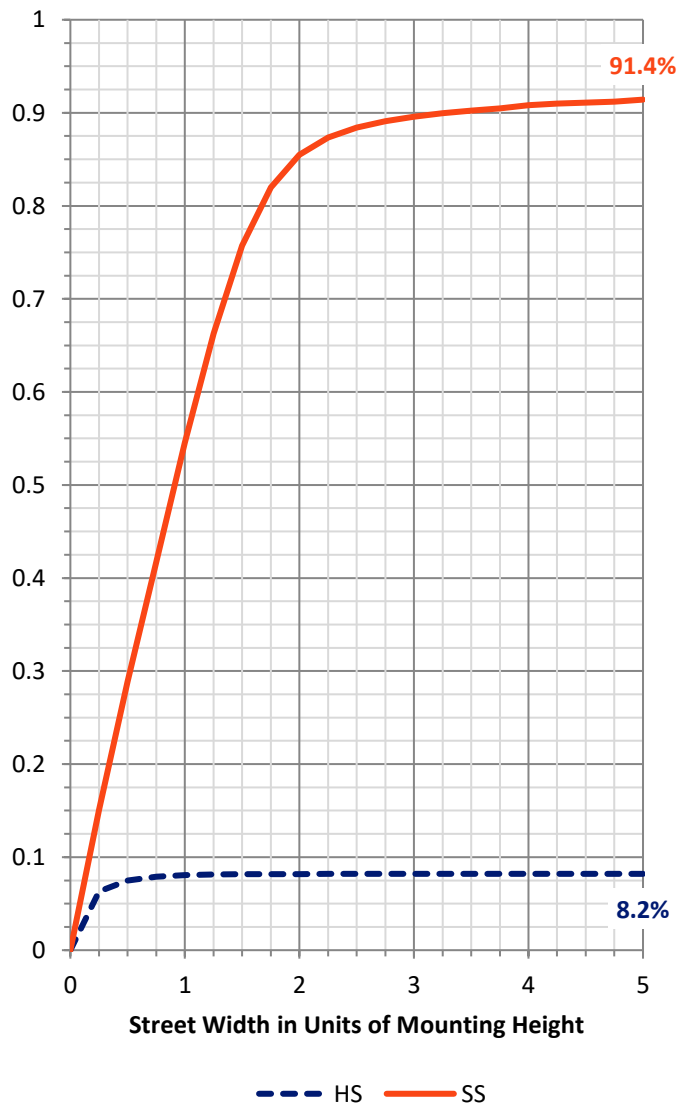
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2323.3	0.0	2323.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	25784.7	0.0	25784.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	28108.0	0.0	28108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.9	2.2
10°-20°	1310.6	4.7
20°-30°	1738.9	6.2
30°-40°	2409.5	8.6
40°-50°	3931.6	14.0
50°-60°	6910.6	24.6
60°-70°	7654.0	27.2
70°-80°	3171.8	11.3
80°-90°	349.2	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°	28108.0	100.0
0°-180°	28108.0	100.0

Coefficient of Utilization



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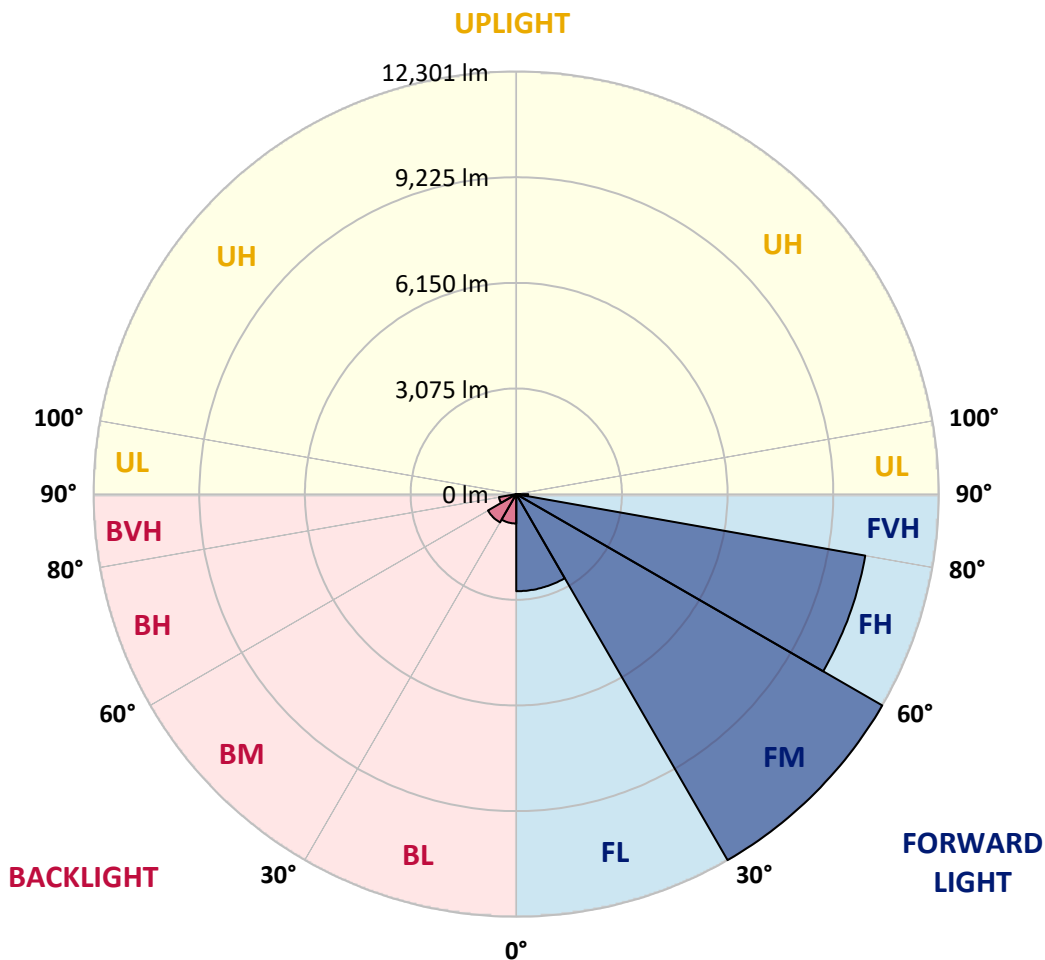
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2825.6	10.1			
FM	(30°-60°)	12300.6	43.8			
FH	(60°-80°)	10315.0	36.7			G4/12000
FVH	(80°-90°)	343.4	1.2			G3/500
BL	(0°-30°)	855.7	3.0	B2/1000		
BM	(30°-60°)	951.1	3.4	B1/1000		
BH	(60°-80°)	510.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4
2.5°	8664.9	8694.8	8720.9	8672.4	8713.4	8653.7	8500.7	8467.2	8441.0	8213.4	8082.8
5°	8661.2	8627.6	8653.7	8676.1	8620.1	8664.9	8627.6	8631.3	8530.6	8325.3	7959.6
7.5°	8082.8	8067.9	8082.8	8191.0	8314.2	8411.2	8467.2	8523.1	8456.0	8150.0	7795.5
10°	7302.9	7377.5	7418.6	7612.6	7802.9	7982.0	8157.4	8261.9	8243.3	8120.1	7616.3
12.5°	6758.0	6735.7	6884.9	7011.8	7202.1	7564.1	7870.1	7967.1	8079.1	7907.4	7381.2
15°	6254.3	6194.6	6284.1	6504.3	6828.9	7116.3	7545.4	7691.0	7832.8	7877.5	7254.4
17.5°	5772.9	5802.7	5896.0	6093.8	6399.8	6802.8	7205.8	7414.8	7754.4	7694.7	7064.0
20°	5541.5	5605.0	5638.5	5739.3	5952.0	6355.0	6955.8	7123.8	7485.7	7691.0	6877.5
22.5°	5552.7	5552.7	5474.4	5534.1	5728.1	6041.6	6616.2	6802.8	7377.5	7496.9	6709.5
25°	5672.1	5597.5	5601.2	5530.3	5612.4	5784.1	6310.2	6537.9	7157.3	7515.6	6620.0
27.5°	5761.7	5746.8	5724.4	5705.7	5601.2	5627.4	6108.7	6295.3	7071.5	7493.2	6481.9
30°	6086.3	6019.2	5996.8	5955.7	5817.7	5690.8	5948.3	6183.4	7004.3	7545.4	6403.5
32.5°	6358.8	6370.0	6388.6	6269.2	6149.8	5836.3	5993.1	6179.6	6955.8	7664.8	6481.9
35°	6702.1	6750.6	6758.0	6720.7	6593.9	6284.1	6179.6	6340.1	7037.9	7877.5	6489.4
37.5°	7224.5	7172.3	7314.1	7329.0	7239.4	6828.9	6612.5	6676.0	7280.5	8217.1	6773.0
40°	7564.1	7627.5	7892.5	8056.7	7903.7	7530.5	7239.4	7228.2	7631.3	8750.8	7123.8
42.5°	7941.0	8082.8	8373.9	8728.4	8709.7	8362.7	8067.9	8019.4	8254.4	9523.2	7679.8
45°	8456.0	8582.8	8989.6	9523.2	9814.3	9519.5	9075.4	8978.4	9012.0	10575.5	8627.6
47.5°	9310.5	9276.9	9862.8	10389.0	10866.6	10639.0	10448.7	10165.1	10138.9	11814.5	9937.4
50°	10277.0	10269.5	10792.0	11389.0	11941.3	12385.4	12068.2	11758.5	11765.9	13497.4	11478.6
52.5°	11195.0	11340.5	11904.0	12497.4	13445.2	13922.8	14228.8	14105.7	13512.4	15001.3	13128.0
55°	11680.1	11807.0	12366.7	13389.2	14885.6	16113.3	16941.8	16837.3	15691.7	16695.5	14755.0
57.5°	11221.1	11306.9	12064.5	13404.1	15893.2	18632.2	19427.1	19296.4	17945.6	17990.4	16721.6
60°	9299.3	9433.7	10560.6	12131.6	15501.3	20572.7	22849.0	22651.2	19998.0	19628.6	17986.6
62.5°	6440.9	6530.4	7455.9	9411.3	13643.0	21248.1	26080.6	26188.8	22162.4	20904.8	18363.5
65°	4172.0	4164.5	4694.4	6019.2	9668.7	19203.2	27991.2	28662.9	24252.1	21098.8	18247.8
67°	2948.0	2936.8	3186.8	4082.4	6694.6	15822.3	27957.6	29401.8	25386.5	21154.8	17176.9
67.5°	2720.4	2709.2	2948.0	3754.1	6041.6	14714.0	27539.7	29021.2	25785.8	21076.5	16706.7
70°	2112.1	2082.3	2171.8	2586.0	3519.0	9515.7	23569.2	26659.0	24957.4	19121.1	13340.7
72.5°	1526.3	1559.8	1701.6	2123.3	2761.4	5119.8	17964.2	21557.8	20845.1	14411.7	8478.3
75°	1063.5	1093.4	1321.0	1731.5	2533.8	3104.7	12146.6	15635.7	14519.9	7955.9	3612.3
77.5°	556.0	593.3	843.4	1384.4	2302.4	2403.2	7258.1	9915.0	7694.7	2832.3	996.4
80°	257.5	276.1	421.7	981.4	1925.5	2112.1	4231.7	5515.4	3078.6	634.4	343.3
82.5°	111.9	123.1	194.0	563.5	1365.8	1847.2	2619.6	2892.0	1115.8	205.2	212.7
85°	22.4	26.1	74.6	298.5	660.5	1119.5	1839.7	1716.6	559.7	100.8	167.9
87.5°	0.0	0.0	18.7	85.8	179.1	332.1	779.9	779.9	171.7	52.2	63.4
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°	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4
2.5°	7967.1	7832.8	7538.0	7265.6	7071.5	6851.3	6560.3	6429.7	6381.1	6314.0	6213.2
5°	7758.1	7593.9	7090.2	6582.7	6026.6	5605.0	5157.2	4895.9	4698.2	4575.0	4534.0
7.5°	7463.3	7127.5	6448.3	5634.8	4914.6	4287.7	3608.5	3149.5	2854.7	2735.3	2623.4
10°	7228.2	6791.6	5758.0	4746.7	3787.6	2869.7	2104.7	1701.6	1395.6	1280.0	1265.0
12.5°	6922.2	6399.8	5112.4	3839.9	2634.6	1709.1	1164.3	1011.3	925.5	910.5	899.3
15°	6668.5	6045.3	4500.4	2974.1	1705.4	1067.3	906.8	869.5	847.1	839.6	843.4
17.5°	6496.8	5664.7	3873.5	2164.4	1123.2	873.2	835.9	813.5	802.3	798.6	787.4
20°	6157.2	5343.7	3254.0	1515.1	876.9	806.0	776.2	757.5	746.3	742.6	738.9
22.5°	5963.2	4937.0	2634.6	1056.1	779.9	731.4	709.0	694.1	675.4	664.2	660.5
25°	5769.2	4638.5	2082.3	821.0	709.0	675.4	641.8	623.2	593.3	578.4	574.7
27.5°	5541.5	4343.7	1604.6	712.7	638.1	604.5	570.9	541.1	503.8	488.8	481.4
30°	5410.9	4056.3	1209.1	638.1	585.9	541.1	500.0	462.7	421.7	395.6	388.1
32.5°	5343.7	3795.1	906.8	582.1	529.9	481.4	429.1	384.4	347.0	324.7	320.9
35°	5261.6	3541.4	712.7	529.9	477.7	425.4	373.2	328.4	291.1	272.4	264.9
37.5°	5347.5	3392.1	593.3	488.8	436.6	376.9	320.9	276.1	246.3	227.6	223.9
40°	5582.6	3268.9	515.0	451.5	395.6	332.1	279.9	235.1	209.0	194.0	186.6
42.5°	5944.5	3268.9	466.5	414.2	358.2	291.1	238.8	205.2	179.1	164.2	160.5
45°	6601.3	3369.7	425.4	376.9	313.5	250.0	205.2	171.7	145.5	130.6	126.9
47.5°	7523.0	3601.1	391.8	343.3	279.9	220.2	179.1	145.5	119.4	104.5	100.8
50°	8762.0	4127.2	358.2	302.3	250.0	190.3	149.3	115.7	93.3	78.4	74.6
52.5°	10306.9	4873.6	324.7	279.9	212.7	160.5	119.4	93.3	70.9	59.7	56.0
55°	11941.3	5787.8	283.6	250.0	182.9	134.3	97.0	70.9	52.2	44.8	41.0
57.5°	13587.0	6493.1	250.0	216.4	149.3	108.2	78.4	56.0	37.3	29.9	26.1
60°	14460.2	6560.3	216.4	179.1	119.4	85.8	59.7	41.0	26.1	18.7	14.9
62.5°	14594.5	5963.2	186.6	145.5	97.0	67.2	41.0	29.9	14.9	7.5	7.5
65°	13904.2	4970.6	160.5	115.7	74.6	48.5	29.9	18.7	7.5	3.7	0.0
67°	12784.7	4164.5	138.1	97.0	59.7	37.3	22.4	11.2	3.7	0.0	0.0
67.5°	12351.8	3940.6	130.6	89.6	56.0	33.6	18.7	11.2	3.7	0.0	0.0
70°	9586.7	2813.7	97.0	63.4	41.0	26.1	14.9	7.5	0.0	0.0	0.0
72.5°	5873.6	1645.7	74.6	44.8	29.9	18.7	11.2	3.7	0.0	0.0	0.0
75°	2462.9	567.2	63.4	33.6	22.4	11.2	7.5	3.7	0.0	0.0	0.0
77.5°	641.8	212.7	44.8	22.4	14.9	11.2	7.5	3.7	0.0	0.0	0.0
80°	261.2	97.0	29.9	14.9	14.9	11.2	7.5	3.7	0.0	0.0	0.0
82.5°	171.7	44.8	18.7	14.9	11.2	7.5	3.7	0.0	0.0	0.0	0.0
85°	130.6	26.1	11.2	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	56.0	14.9	11.2	7.5	7.5	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)