

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: P484505

Luminaire Tested: **IFLD-L-SA8B-760-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484505
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-760-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

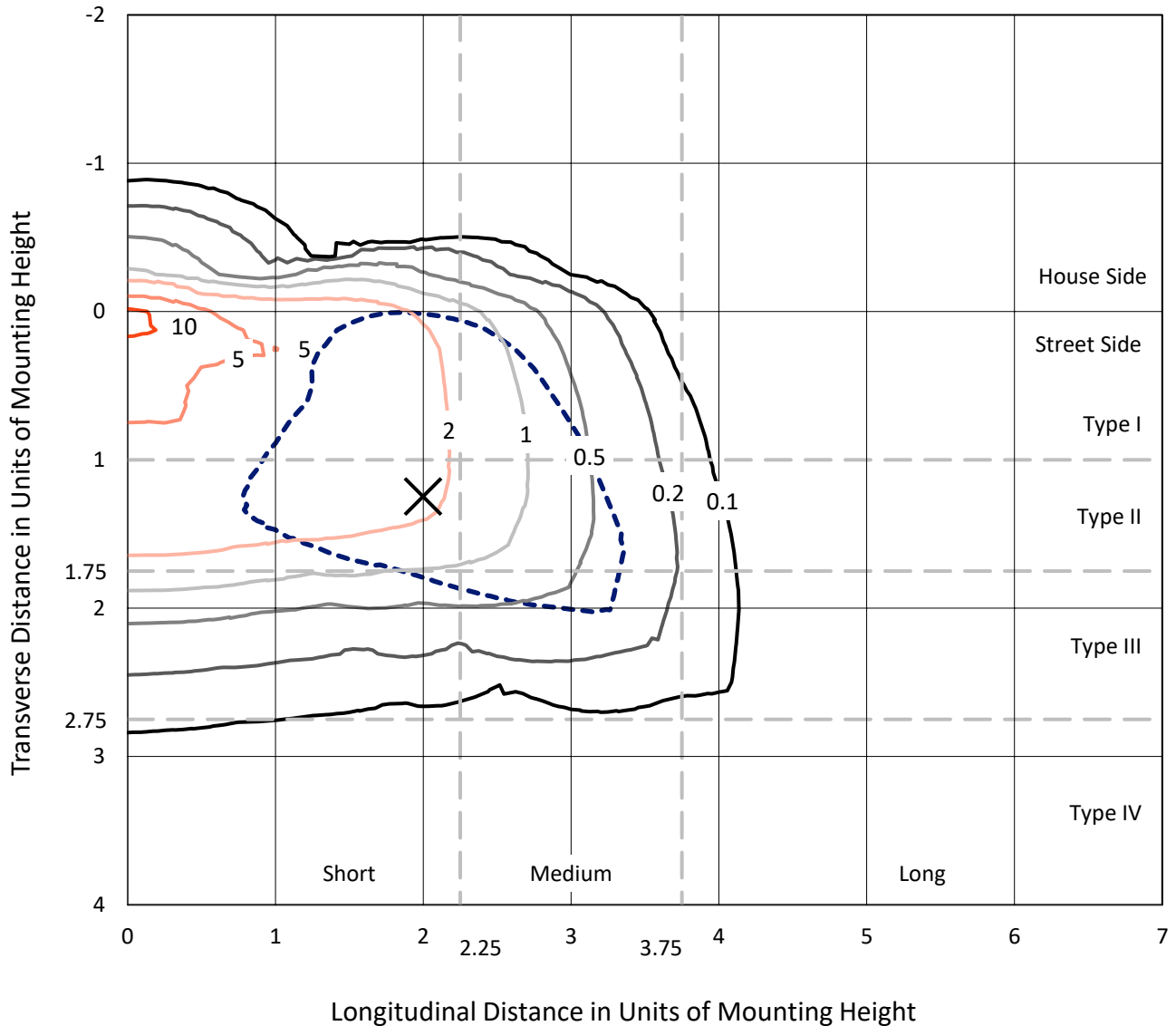
Lumens per Lamp: N/A
Luminaire Lumens: 34815.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

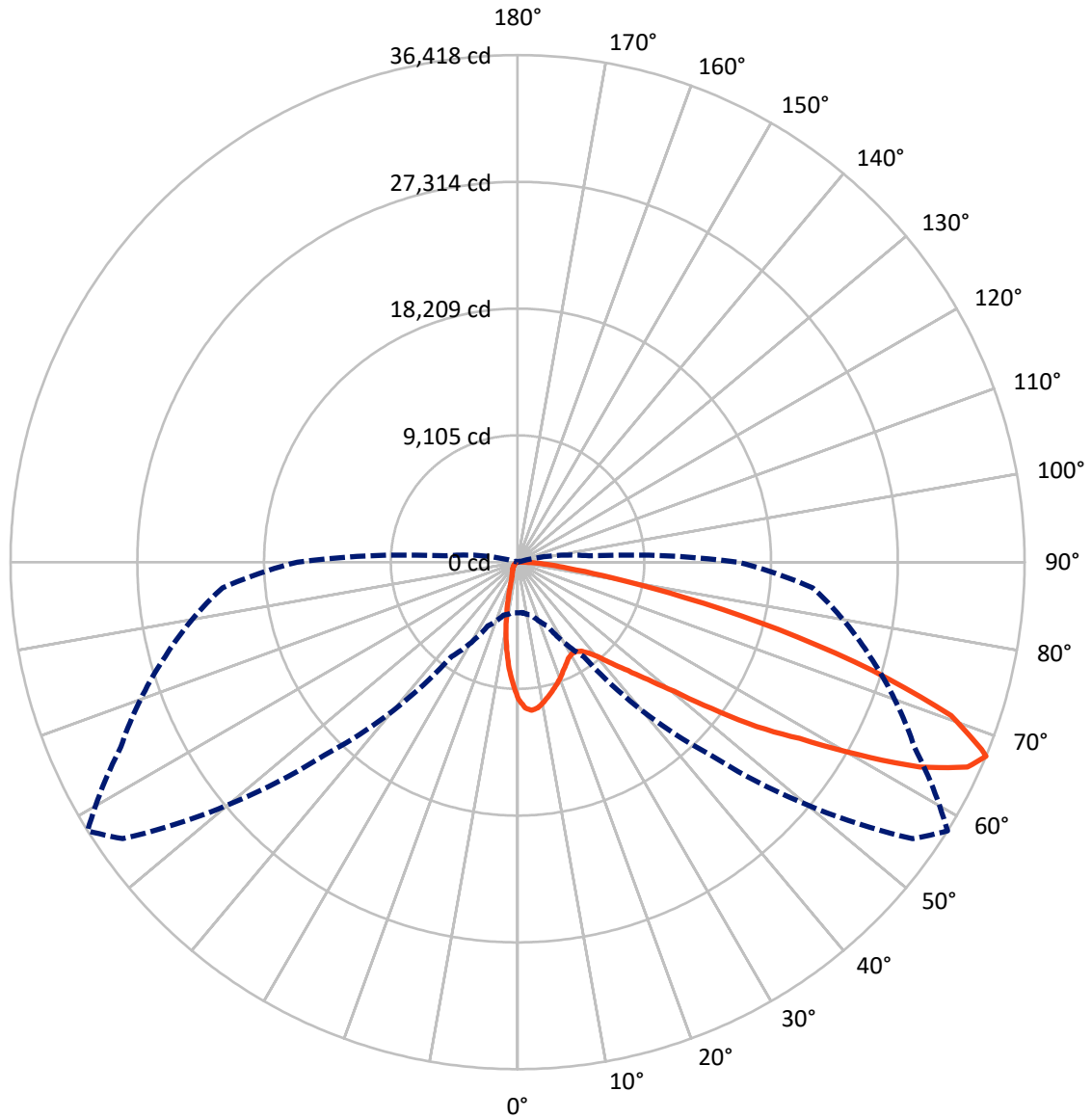
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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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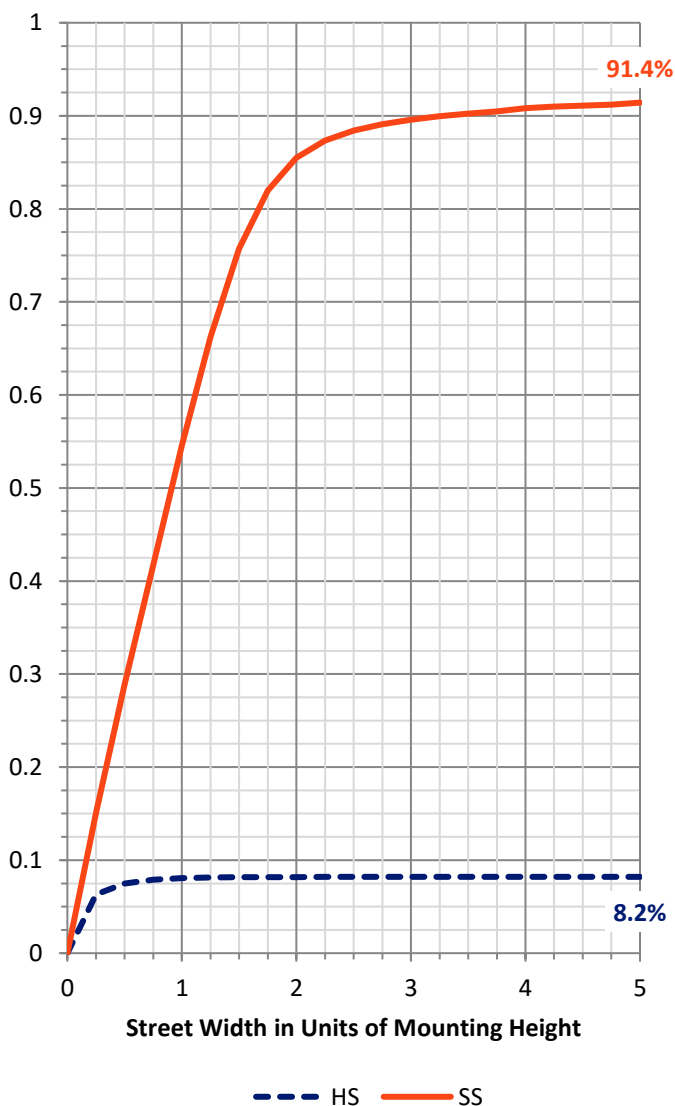
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2877.7	0.0	2877.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	31937.8	0.0	31937.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	34815.5	0.0	34815.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.6	2.2
10°-20°	1623.3	4.7
20°-30°	2153.8	6.2
30°-40°	2984.5	8.6
40°-50°	4869.9	14.0
50°-60°	8559.7	24.6
60°-70°	9480.5	27.2
70°-80°	3928.7	11.3
80°-90°	432.5	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°	34815.5	100.0
0°-180°	34815.5	100.0

Coefficient of Utilization



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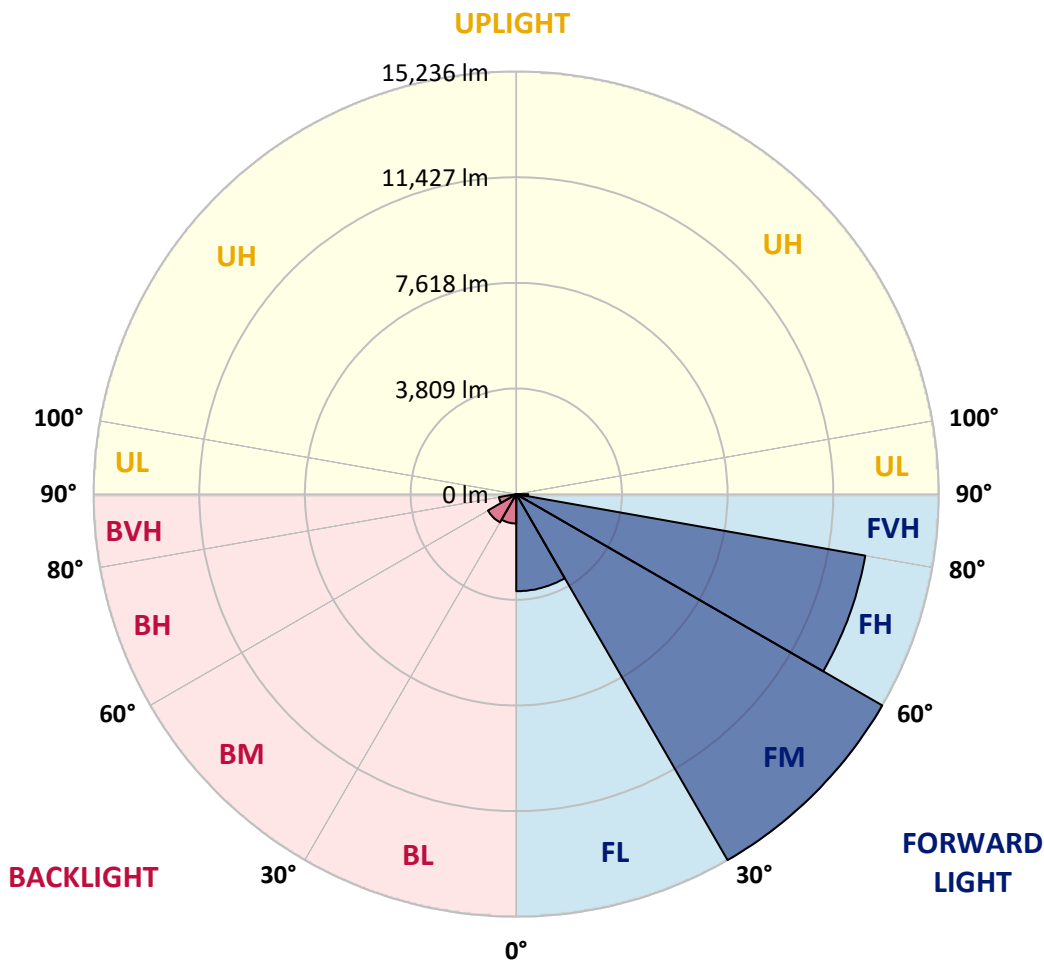
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3499.9	10.1			
FM (30°-60°)	15236.0	43.8			
FH (60°-80°)	12776.5	36.7			G5
FVH (80°-90°)	425.4	1.2			G3/500
BL (0°-30°)	1059.9	3.0	B3/2500		
BM (30°-60°)	1178.0	3.4	B2/2500		
BH (60°-80°)	632.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7
2.5°	10732.7	10769.7	10802.0	10741.9	10792.8	10718.8	10529.3	10487.7	10455.4	10173.4	10011.6
5°	10728.1	10686.5	10718.8	10746.6	10677.2	10732.7	10686.5	10691.1	10566.3	10312.1	9859.1
7.5°	10011.6	9993.1	10011.6	10145.7	10298.2	10418.4	10487.7	10557.0	10473.8	10094.8	9655.7
10°	9045.6	9138.0	9188.9	9429.2	9665.0	9886.8	10104.1	10233.5	10210.4	10057.8	9433.9
12.5°	8370.8	8343.0	8527.9	8685.1	8920.8	9369.1	9748.2	9868.3	10007.0	9794.4	9142.7
15°	7746.8	7672.8	7783.7	8056.4	8458.6	8814.5	9346.0	9526.3	9701.9	9757.4	8985.5
17.5°	7150.5	7187.5	7303.0	7548.0	7927.0	8426.2	8925.4	9184.3	9604.9	9530.9	8749.8
20°	6863.9	6942.5	6984.1	7108.9	7372.4	7871.6	8615.7	8823.7	9272.1	9526.3	8518.7
22.5°	6877.8	6877.8	6780.7	6854.7	7095.0	7483.3	8195.1	8426.2	9138.0	9285.9	8310.7
25°	7025.7	6933.3	6937.9	6850.1	6951.7	7164.4	7816.1	8098.0	8865.3	9309.1	8199.7
27.5°	7136.6	7118.1	7090.4	7067.3	6937.9	6970.2	7566.5	7797.6	8759.0	9281.3	8028.7
30°	7538.8	7455.6	7427.8	7377.0	7206.0	7048.8	7367.7	7658.9	8675.8	9346.0	7931.6
32.5°	7876.2	7890.0	7913.2	7765.3	7617.3	7229.1	7423.2	7654.3	8615.7	9493.9	8028.7
35°	8301.4	8361.5	8370.8	8324.5	8167.4	7783.7	7654.3	7853.1	8717.4	9757.4	8038.0
37.5°	8948.5	8883.8	9059.5	9077.9	8967.0	8458.6	8190.5	8269.1	9017.9	10178.0	8389.2
40°	9369.1	9447.7	9775.9	9979.3	9789.8	9327.5	8967.0	8953.1	9452.3	10839.0	8823.7
42.5°	9836.0	10011.6	10372.2	10811.3	10788.2	10358.3	9993.1	9933.1	10224.2	11795.8	9512.4
45°	10473.8	10631.0	11134.8	11795.8	12156.3	11791.2	11241.1	11120.9	11162.5	13099.2	10686.5
47.5°	11532.3	11490.7	12216.4	12868.1	13459.8	13177.8	12942.1	12590.8	12558.4	14633.8	12308.8
50°	12729.5	12720.2	13367.3	14106.9	14791.0	15341.0	14948.1	14564.5	14573.7	16718.4	14217.8
52.5°	13866.5	14046.8	14744.7	15479.7	16653.7	17245.3	17624.3	17471.8	16736.9	18581.1	16260.8
55°	14467.4	14624.6	15317.9	16584.4	18437.8	19958.5	20984.7	20855.2	19436.2	20679.6	18276.1
57.5°	13898.9	14005.2	14943.5	16602.8	19685.8	23078.5	24063.0	23901.3	22228.0	22283.5	20712.0
60°	11518.5	11684.9	13080.8	15026.7	19200.5	25482.0	28301.6	28056.6	24770.2	24312.6	22278.9
62.5°	7977.9	8088.8	9235.1	11657.1	16898.7	26318.7	32304.4	32438.4	27451.1	25893.4	22745.7
65°	5167.6	5158.3	5814.7	7455.6	11976.1	23785.7	34670.9	35502.9	30039.5	26133.8	22602.4
67°	3651.5	3637.7	3947.3	5056.7	8292.2	19598.0	34629.3	36418.1	31444.6	26203.1	21275.9
67.5°	3369.6	3355.7	3651.5	4649.9	7483.3	18225.2	34111.6	35946.6	31939.2	26106.0	20693.5
70°	2616.2	2579.2	2690.1	3203.2	4358.7	11786.5	29193.6	33020.8	30913.1	23684.0	16524.3
72.5°	1890.5	1932.1	2107.7	2630.0	3420.4	6341.6	22251.1	26702.3	25819.5	17850.8	10501.6
75°	1317.3	1354.3	1636.2	2144.7	3138.5	3845.6	15045.2	19366.9	17984.9	9854.5	4474.3
77.5°	688.7	734.9	1044.6	1714.8	2851.9	2976.7	8990.1	12281.1	9530.9	3508.2	1234.1
80°	318.9	342.0	522.3	1215.6	2385.0	2616.2	5241.5	6831.6	3813.3	785.8	425.2
82.5°	138.7	152.5	240.4	697.9	1691.7	2288.0	3244.8	3582.2	1382.0	254.2	263.5
85°	27.7	32.4	92.4	369.8	818.1	1386.7	2278.7	2126.2	693.3	124.8	208.0
87.5°	0.0	0.0	23.1	106.3	221.9	411.4	966.0	966.0	212.6	64.7	78.6
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°	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7	9863.7
2.5°	9868.3	9701.9	9336.8	8999.4	8759.0	8486.3	8125.8	7964.0	7903.9	7820.7	7695.9
5°	9609.5	9406.1	8782.1	8153.5	7464.8	6942.5	6387.8	6064.3	5819.3	5666.8	5615.9
7.5°	9244.3	8828.4	7987.1	6979.5	6087.4	5310.9	4469.6	3901.1	3536.0	3388.1	3249.4
10°	8953.1	8412.4	7132.0	5879.4	4691.5	3554.5	2606.9	2107.7	1728.7	1585.4	1566.9
12.5°	8574.1	7927.0	6332.4	4756.2	3263.3	2117.0	1442.1	1252.6	1146.3	1127.8	1113.9
15°	8259.8	7487.9	5574.3	3683.9	2112.3	1321.9	1123.2	1077.0	1049.2	1040.0	1044.6
17.5°	8047.2	7016.5	4797.8	2680.9	1391.3	1081.6	1035.4	1007.6	993.8	989.1	975.3
20°	7626.6	6619.0	4030.5	1876.6	1086.2	998.4	961.4	938.3	924.4	919.8	915.2
22.5°	7386.2	6115.1	3263.3	1308.1	966.0	905.9	878.2	859.7	836.6	822.7	818.1
25°	7145.9	5745.4	2579.2	1016.9	878.2	836.6	795.0	771.9	734.9	716.4	711.8
27.5°	6863.9	5380.2	1987.5	882.8	790.4	748.8	707.2	670.2	624.0	605.5	596.3
30°	6702.2	5024.3	1497.6	790.4	725.7	670.2	619.4	573.1	522.3	490.0	480.7
32.5°	6619.0	4700.8	1123.2	721.1	656.3	596.3	531.5	476.1	429.9	402.1	397.5
35°	6517.3	4386.4	882.8	656.3	591.6	526.9	462.2	406.8	360.5	337.4	328.2
37.5°	6623.6	4201.6	734.9	605.5	540.8	466.8	397.5	342.0	305.1	282.0	277.3
40°	6914.8	4049.0	637.9	559.3	490.0	411.4	346.7	291.2	258.8	240.4	231.1
42.5°	7363.1	4049.0	577.8	513.1	443.7	360.5	295.8	254.2	221.9	203.4	198.8
45°	8176.6	4173.8	526.9	466.8	388.3	309.7	254.2	212.6	180.3	161.8	157.2
47.5°	9318.3	4460.4	485.3	425.2	346.7	272.7	221.9	180.3	147.9	129.4	124.8
50°	10852.9	5112.1	443.7	374.4	309.7	235.7	184.9	143.3	115.6	97.1	92.4
52.5°	12766.4	6036.6	402.1	346.7	263.5	198.8	147.9	115.6	87.8	74.0	69.3
55°	14791.0	7169.0	351.3	309.7	226.5	166.4	120.2	87.8	64.7	55.5	50.8
57.5°	16829.3	8042.6	309.7	268.1	184.9	134.0	97.1	69.3	46.2	37.0	32.4
60°	17910.9	8125.8	268.1	221.9	147.9	106.3	74.0	50.8	32.4	23.1	18.5
62.5°	18077.3	7386.2	231.1	180.3	120.2	83.2	50.8	37.0	18.5	9.2	9.2
65°	17222.2	6156.7	198.8	143.3	92.4	60.1	37.0	23.1	9.2	4.6	0.0
67°	15835.6	5158.3	171.0	120.2	74.0	46.2	27.7	13.9	4.6	0.0	0.0
67.5°	15299.4	4881.0	161.8	110.9	69.3	41.6	23.1	13.9	4.6	0.0	0.0
70°	11874.4	3485.1	120.2	78.6	50.8	32.4	18.5	9.2	0.0	0.0	0.0
72.5°	7275.3	2038.4	92.4	55.5	37.0	23.1	13.9	4.6	0.0	0.0	0.0
75°	3050.6	702.6	78.6	41.6	27.7	13.9	9.2	4.6	0.0	0.0	0.0
77.5°	795.0	263.5	55.5	27.7	18.5	13.9	9.2	4.6	0.0	0.0	0.0
80°	323.6	120.2	37.0	18.5	18.5	13.9	9.2	4.6	0.0	0.0	0.0
82.5°	212.6	55.5	23.1	18.5	13.9	9.2	4.6	0.0	0.0	0.0	0.0
85°	161.8	32.4	13.9	13.9	9.2	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	69.3	18.5	13.9	9.2	9.2	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)