

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: P484423

Luminaire Tested: **IFLD-L-SA7C-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

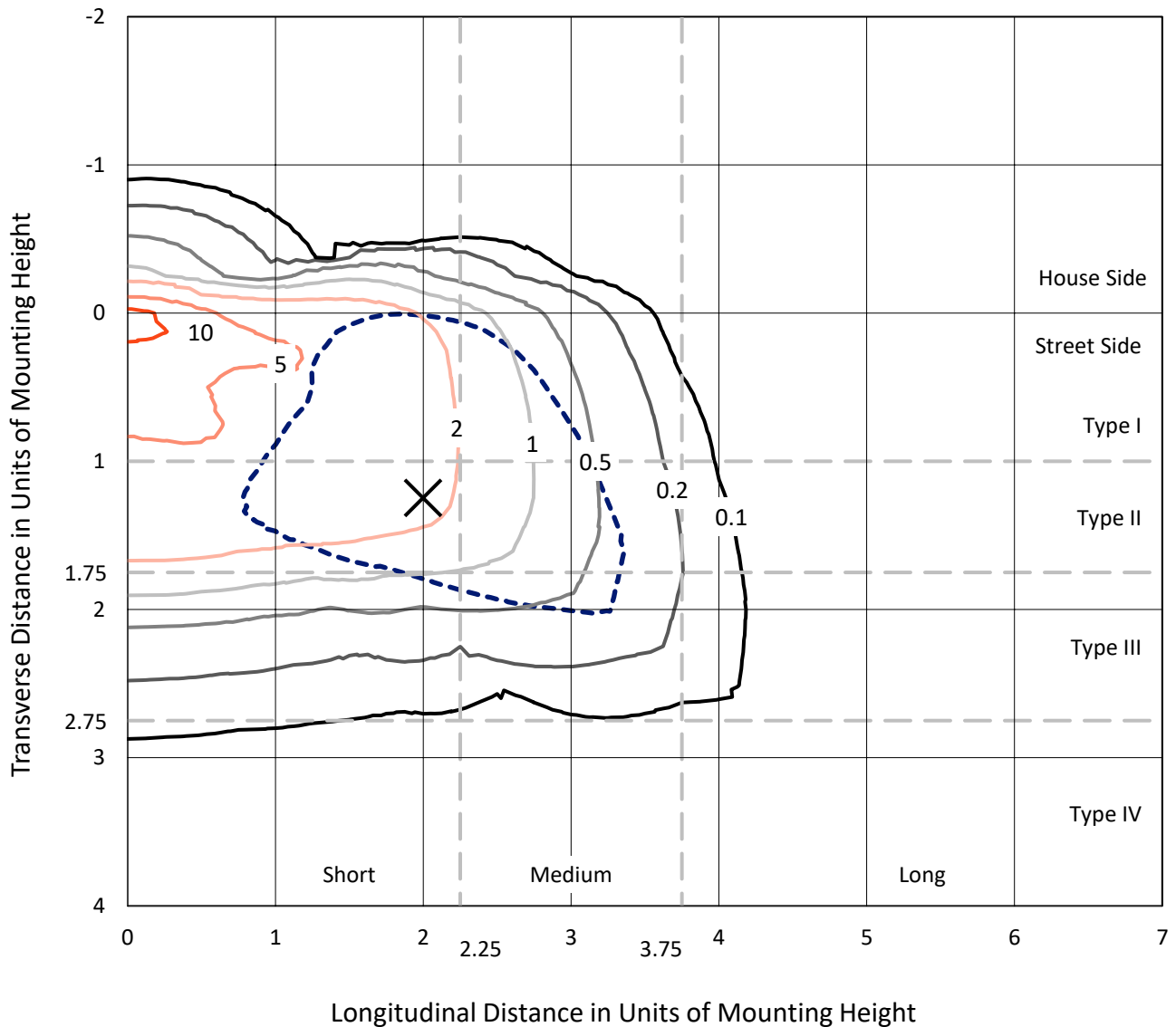
Lumens per Lamp: N/A
Luminaire Lumens: 37073.7 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

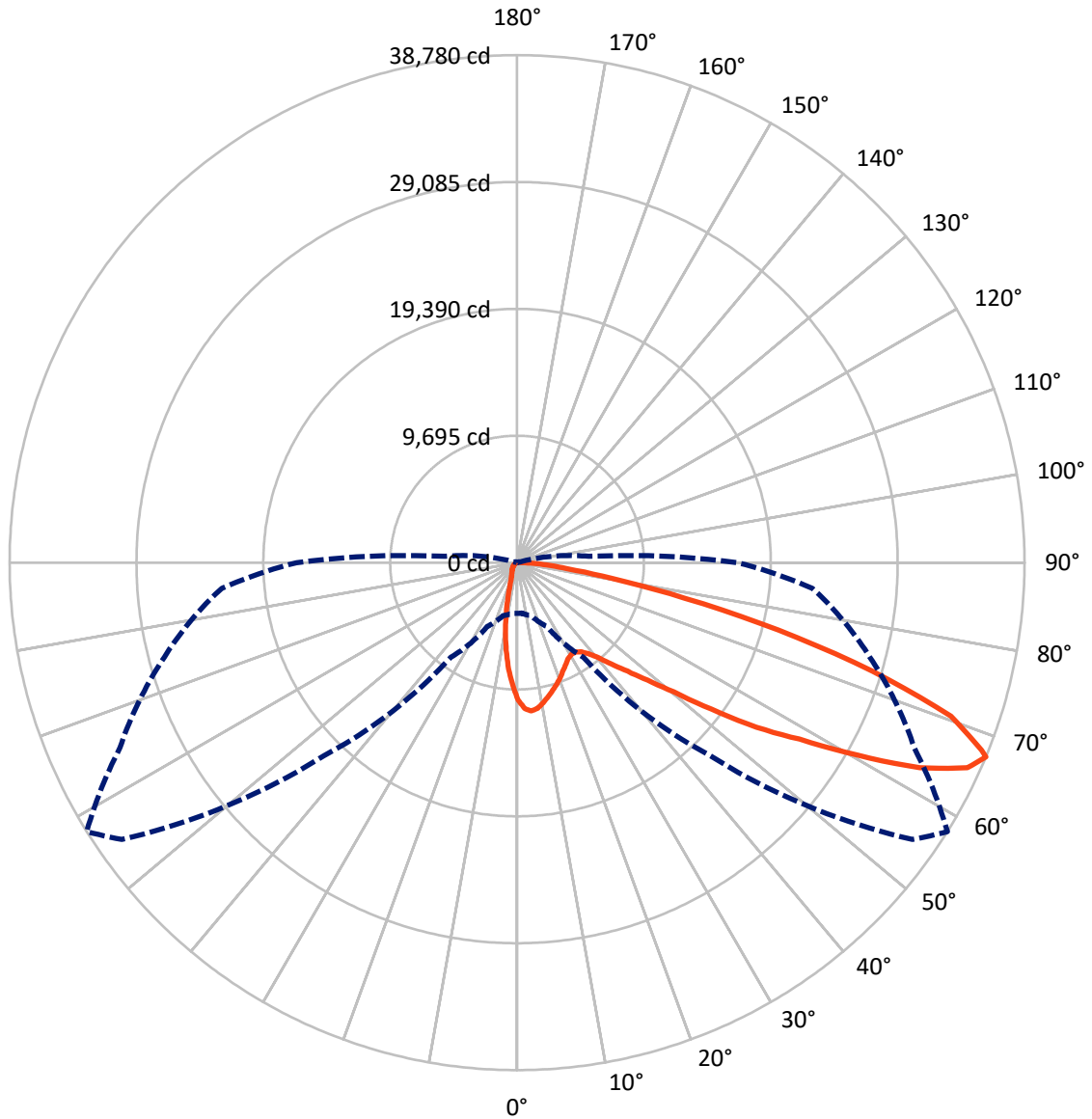
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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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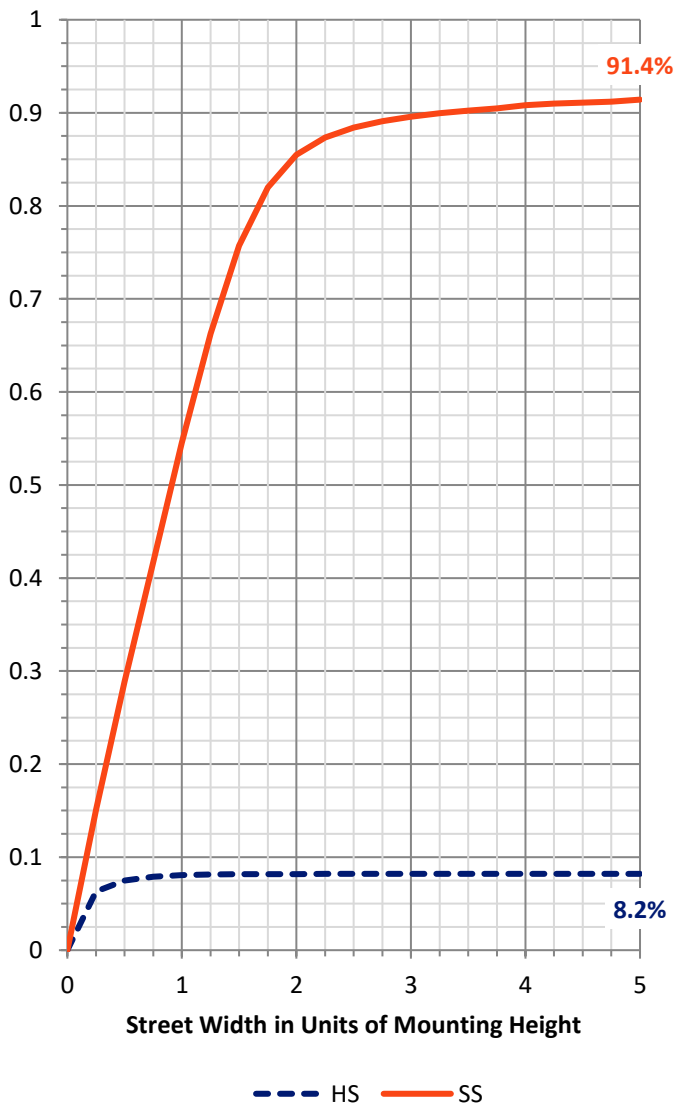
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3064.4	0.0	3064.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	34009.3	0.0	34009.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	37073.7	0.0	37073.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.4	2.2
10°-20°	1728.6	4.7
20°-30°	2293.5	6.2
30°-40°	3178.1	8.6
40°-50°	5185.7	14.0
50°-60°	9114.8	24.6
60°-70°	10095.4	27.2
70°-80°	4183.5	11.3
80°-90°	460.5	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°	37073.7	100.0
0°-180°	37073.7	100.0



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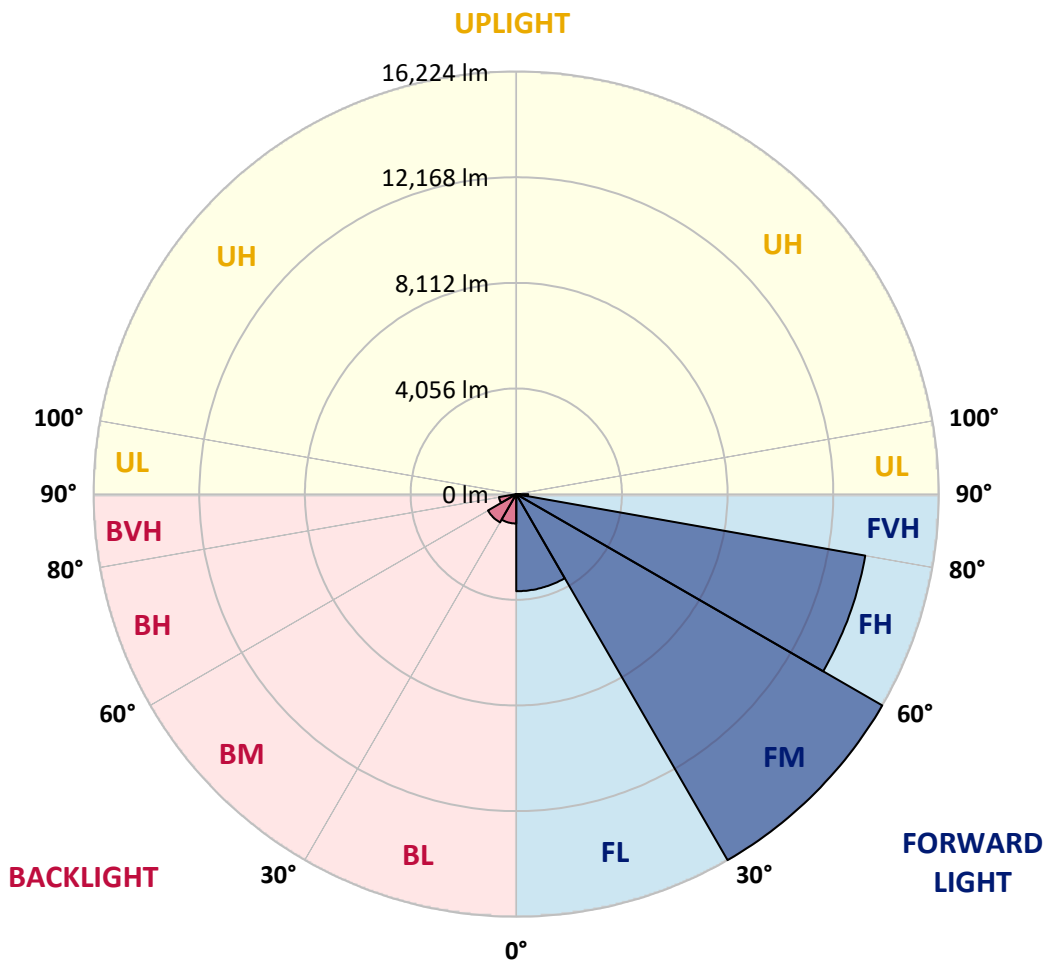
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3726.9	10.1			
FM (30°-60°)	16224.2	43.8			
FH (60°-80°)	13605.2	36.7			G5
FVH (80°-90°)	453.0	1.2			G3/500
BL (0°-30°)	1128.6	3.0	B3/2500		
BM (30°-60°)	1254.4	3.4	B2/2500		
BH (60°-80°)	673.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.6	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°	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5
2.5°	11428.8	11468.2	11502.6	11438.7	11492.8	11414.0	11212.2	11167.9	11133.5	10833.3	10661.0
5°	11423.9	11379.6	11414.0	11443.6	11369.7	11428.8	11379.6	11384.5	11251.6	10980.9	10498.6
7.5°	10661.0	10641.3	10661.0	10803.7	10966.1	11094.1	11167.9	11241.8	11153.2	10749.6	10282.0
10°	9632.3	9730.7	9784.9	10040.8	10291.8	10528.1	10759.4	10897.2	10872.6	10710.2	10045.7
12.5°	8913.7	8884.2	9081.0	9248.4	9499.4	9976.8	10380.4	10508.4	10656.1	10429.7	9735.7
15°	8249.2	8170.5	8288.6	8579.0	9007.2	9386.2	9952.2	10144.2	10331.2	10390.3	9568.3
17.5°	7614.3	7653.7	7776.7	8037.6	8441.2	8972.7	9504.3	9780.0	10227.8	10149.1	9317.3
20°	7309.1	7392.8	7437.1	7570.0	7850.5	8382.1	9174.5	9396.0	9873.5	10144.2	9071.2
22.5°	7323.9	7323.9	7220.5	7299.3	7555.2	7968.7	8726.6	8972.7	9730.7	9888.2	8849.7
25°	7481.4	7383.0	7387.9	7294.4	7402.6	7629.1	8323.0	8623.3	9440.3	9912.8	8731.6
27.5°	7599.5	7579.8	7550.3	7525.7	7387.9	7422.3	8057.3	8303.4	9327.1	9883.3	8549.5
30°	8027.7	7939.1	7909.6	7855.5	7673.3	7506.0	7845.6	8155.7	9238.5	9952.2	8446.1
32.5°	8387.0	8401.8	8426.4	8268.9	8111.4	7698.0	7904.7	8150.8	9174.5	10109.7	8549.5
35°	8839.9	8903.8	8913.7	8864.5	8697.1	8288.6	8150.8	8362.4	9282.8	10390.3	8559.3
37.5°	9528.9	9460.0	9647.1	9666.7	9548.6	9007.2	8721.7	8805.4	9602.8	10838.2	8933.4
40°	9976.8	10060.5	10410.0	10626.5	10424.7	9932.5	9548.6	9533.9	10065.4	11542.0	9396.0
42.5°	10473.9	10661.0	11044.9	11512.5	11487.9	11030.1	10641.3	10577.3	10887.4	12560.9	10129.4
45°	11153.2	11320.5	11857.0	12560.9	12944.8	12555.9	11970.2	11842.3	11886.6	13948.9	11379.6
47.5°	12280.3	12236.0	13008.8	13702.8	14332.8	14032.5	13781.5	13407.4	13373.0	15583.0	13107.2
50°	13555.1	13545.3	14234.3	15021.8	15750.3	16336.0	15917.6	15509.1	15519.0	17802.8	15140.0
52.5°	14765.9	14957.9	15701.1	16483.7	17733.9	18363.9	18767.5	18605.0	17822.4	19786.3	17315.5
55°	15405.8	15573.1	16311.4	17660.0	19633.7	21253.1	22345.7	22207.9	20696.9	22020.9	19461.5
57.5°	14800.4	14913.6	15912.7	17679.7	20962.7	24575.4	25623.8	25451.5	23669.7	23728.8	22055.3
60°	12265.5	12442.7	13929.2	16001.3	20445.9	27134.8	30137.2	29876.3	26376.8	25889.6	23723.9
62.5°	8495.3	8613.4	9834.1	12413.2	17994.7	28025.7	34399.6	34542.4	29231.6	27572.9	24221.0
65°	5502.8	5492.9	6191.8	7939.1	12752.8	25328.4	36919.7	37805.6	31987.9	27828.8	24068.4
67°	3888.4	3873.6	4203.4	5384.6	8830.0	20869.1	36875.4	38780.2	33484.1	27902.6	22655.8
67.5°	3588.1	3573.3	3888.4	4951.5	7968.7	19407.3	36324.1	38278.1	34010.8	27799.3	22035.7
70°	2785.8	2746.5	2864.6	3410.9	4641.4	12551.0	31087.2	35162.5	32918.1	25220.2	17596.0
72.5°	2013.1	2057.4	2244.4	2800.6	3642.3	6752.9	23694.4	28434.2	27494.1	19008.6	11182.7
75°	1402.8	1442.1	1742.4	2283.8	3342.0	4095.1	16021.0	20623.0	19151.4	10493.6	4764.5
77.5°	733.4	782.6	1112.4	1826.1	3036.9	3169.7	9573.2	13077.7	10149.1	3735.8	1314.2
80°	339.6	364.2	556.2	1294.5	2539.7	2785.8	5581.5	7274.7	4060.6	836.7	452.8
82.5°	147.7	162.4	255.9	743.2	1801.4	2436.4	3455.2	3814.5	1471.7	270.7	280.6
85°	29.5	34.5	98.4	393.8	871.2	1476.6	2426.5	2264.1	738.3	132.9	221.5
87.5°	0.0	0.0	24.6	113.2	236.3	438.1	1028.7	1028.7	226.4	68.9	83.7
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°	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5	10503.5
2.5°	10508.4	10331.2	9942.4	9583.1	9327.1	9036.7	8652.8	8480.6	8416.6	8328.0	8195.1
5°	10232.8	10016.2	9351.7	8682.4	7949.0	7392.8	6802.2	6457.6	6196.8	6034.3	5980.2
7.5°	9843.9	9401.0	8505.2	7432.2	6482.2	5655.3	4759.5	4154.1	3765.3	3607.8	3460.1
10°	9533.9	8958.0	7594.6	6260.7	4995.8	3785.0	2776.0	2244.4	1840.8	1688.2	1668.5
12.5°	9130.3	8441.2	6743.1	5064.7	3474.9	2254.3	1535.7	1333.9	1220.6	1201.0	1186.2
15°	8795.6	7973.6	5935.9	3922.8	2249.3	1407.7	1196.0	1146.8	1117.3	1107.4	1112.4
17.5°	8569.1	7471.5	5109.0	2854.7	1481.5	1151.7	1102.5	1073.0	1058.2	1053.3	1038.5
20°	8121.2	7048.3	4292.0	1998.3	1156.7	1063.1	1023.8	999.2	984.4	979.5	974.5
22.5°	7865.3	6511.8	3474.9	1392.9	1028.7	964.7	935.2	915.5	890.9	876.1	871.2
25°	7609.4	6118.0	2746.5	1082.8	935.2	890.9	846.6	822.0	782.6	762.9	758.0
27.5°	7309.1	5729.2	2116.4	940.1	841.7	797.4	753.1	713.7	664.5	644.8	634.9
30°	7136.9	5350.2	1594.7	841.7	772.7	713.7	659.5	610.3	556.2	521.7	511.9
32.5°	7048.3	5005.6	1196.0	767.8	698.9	634.9	566.0	507.0	457.7	428.2	423.3
35°	6940.0	4670.9	940.1	698.9	630.0	561.1	492.2	433.1	383.9	359.3	349.5
37.5°	7053.2	4474.1	782.6	644.8	575.9	497.1	423.3	364.2	324.8	300.2	295.3
40°	7363.3	4311.6	679.2	595.6	521.7	438.1	369.1	310.1	275.6	255.9	246.1
42.5°	7840.7	4311.6	615.2	546.3	472.5	383.9	315.0	270.7	236.3	216.6	211.6
45°	8707.0	4444.5	561.1	497.1	413.4	329.8	270.7	226.4	192.0	172.3	167.3
47.5°	9922.7	4749.7	516.8	452.8	369.1	290.4	236.3	192.0	157.5	137.8	132.9
50°	11556.8	5443.7	472.5	398.7	329.8	251.0	196.9	152.6	123.0	103.4	98.4
52.5°	13594.5	6428.1	428.2	369.1	280.6	211.6	157.5	123.0	93.5	78.8	73.8
55°	15750.3	7634.0	374.1	329.8	241.2	177.2	128.0	93.5	68.9	59.1	54.1
57.5°	17920.9	8564.2	329.8	285.5	196.9	142.7	103.4	73.8	49.2	39.4	34.5
60°	19072.6	8652.8	285.5	236.3	157.5	113.2	78.8	54.1	34.5	24.6	19.7
62.5°	19249.8	7865.3	246.1	192.0	128.0	88.6	54.1	39.4	19.7	9.8	9.8
65°	18339.3	6556.1	211.6	152.6	98.4	64.0	39.4	24.6	9.8	4.9	0.0
67°	16862.7	5492.9	182.1	128.0	78.8	49.2	29.5	14.8	4.9	0.0	0.0
67.5°	16291.7	5197.6	172.3	118.1	73.8	44.3	24.6	14.8	4.9	0.0	0.0
70°	12644.5	3711.2	128.0	83.7	54.1	34.5	19.7	9.8	0.0	0.0	0.0
72.5°	7747.2	2170.6	98.4	59.1	39.4	24.6	14.8	4.9	0.0	0.0	0.0
75°	3248.5	748.1	83.7	44.3	29.5	14.8	9.8	4.9	0.0	0.0	0.0
77.5°	846.6	280.6	59.1	29.5	19.7	14.8	9.8	4.9	0.0	0.0	0.0
80°	344.5	128.0	39.4	19.7	19.7	14.8	9.8	4.9	0.0	0.0	0.0
82.5°	226.4	59.1	24.6	19.7	14.8	9.8	4.9	0.0	0.0	0.0	0.0
85°	172.3	34.5	14.8	14.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	73.8	19.7	14.8	9.8	9.8	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)