

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: P324804

Luminaire Tested: **GAN-SA0B-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46303 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

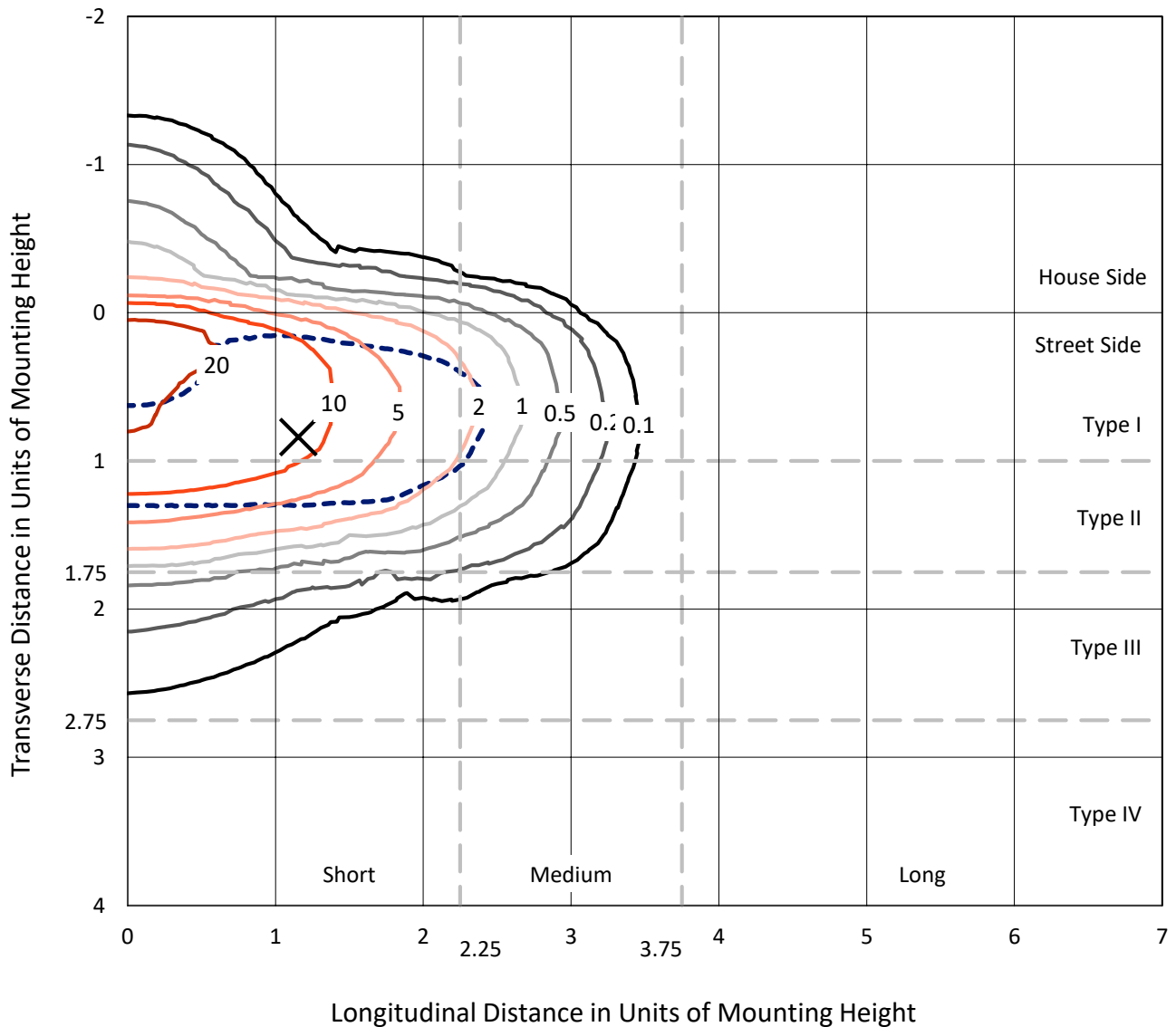
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

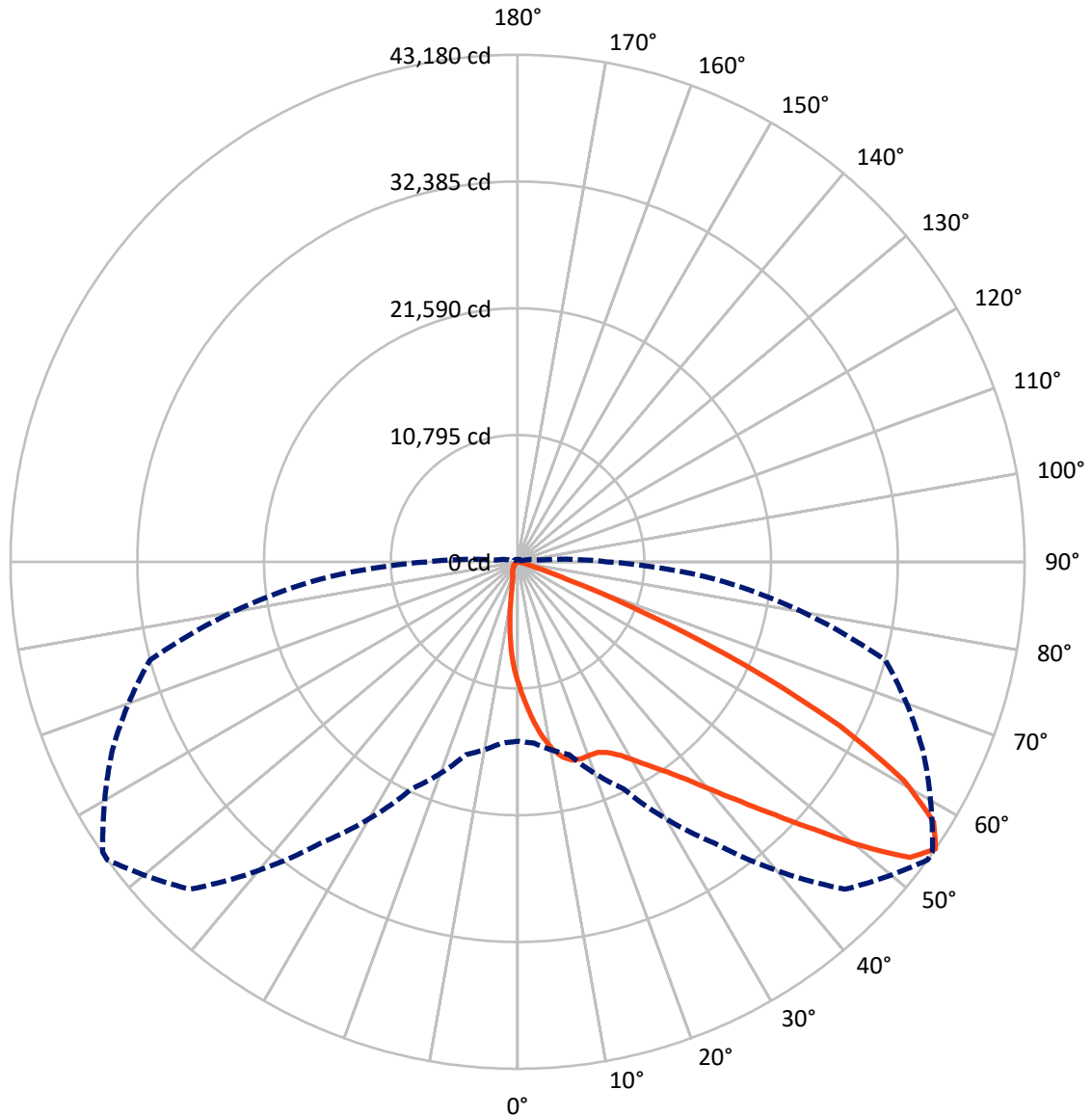
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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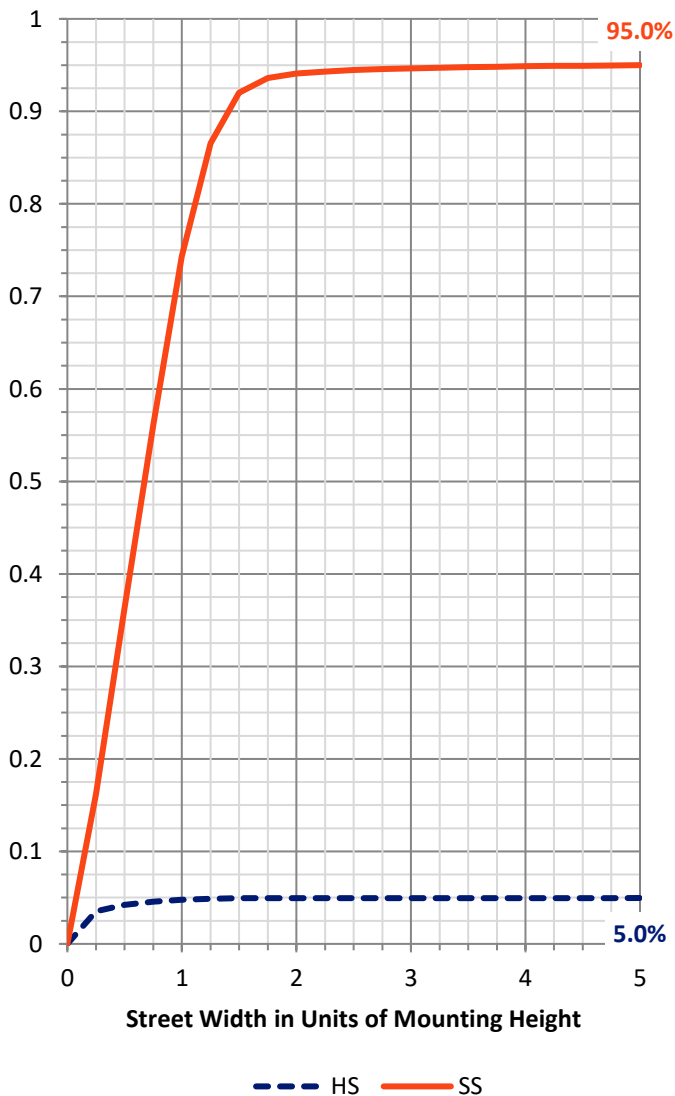
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2310.2	0.0	2310.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	43992.8	0.0	43992.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	46303.0	0.0	46303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.0	2.1
10°-20°	2619.0	5.7
20°-30°	4471.5	9.7
30°-40°	7176.0	15.5
40°-50°	11467.3	24.8
50°-60°	12287.5	26.5
60°-70°	6308.8	13.6
70°-80°	955.6	2.1
80°-90°	62.2	0.1
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°	46303.0	100.0
0°-180°	46303.0	100.0

Coefficient of Utilization



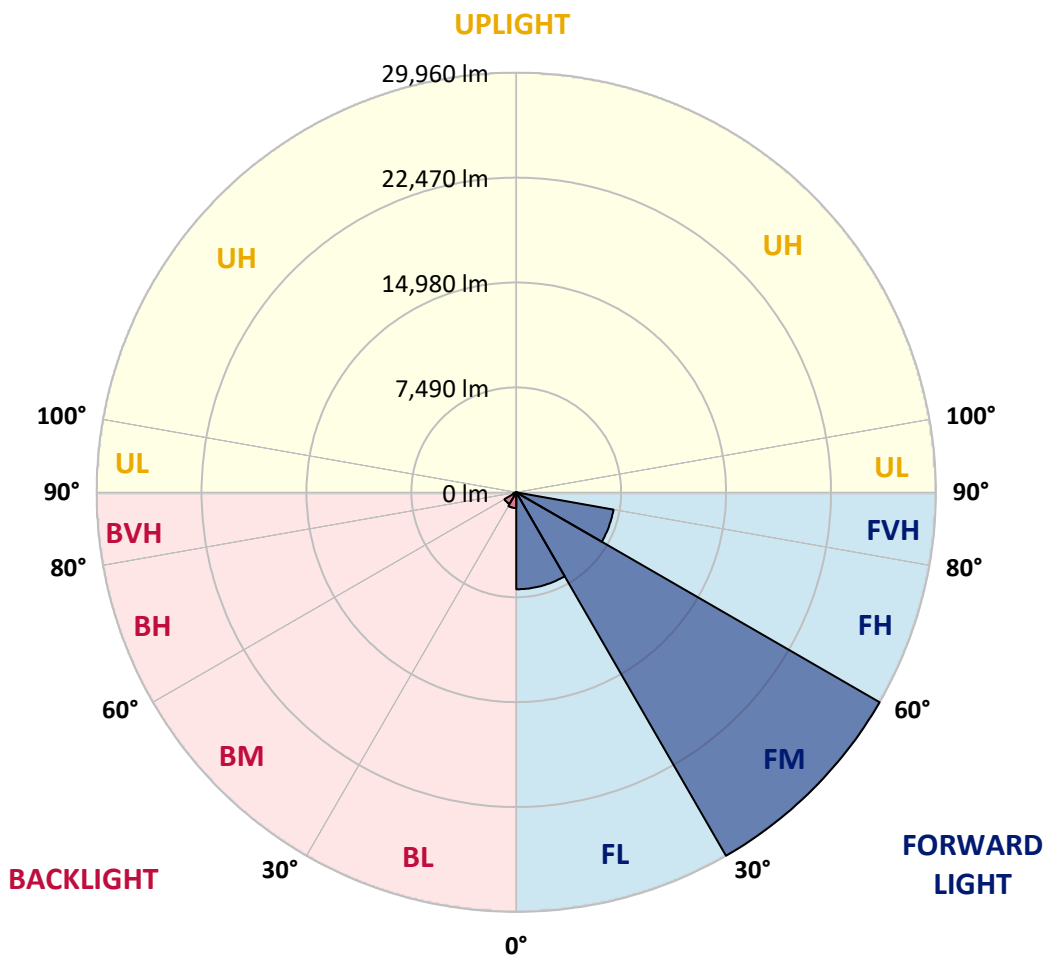
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6921.5	14.9			
FM (30°-60°)	29960.1	64.7			
FH (60°-80°)	7051.5	15.2			G3/7500
FVH (80°-90°)	59.7	0.1			G1/100
BL (0°-30°)	1124.0	2.4	B3/2500		
BM (30°-60°)	970.8	2.1	B1/1000		
BH (60°-80°)	212.9	0.5	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0
2.5°	13013.5	12819.5	12825.5	12737.6	12415.6	12163.7	11901.7	11839.7	11431.8	11003.9	10592.0
5°	15263.1	15121.1	15087.1	14917.1	14469.2	13995.3	13487.4	13369.4	12571.6	11695.8	10833.9
7.5°	16418.9	16420.9	16392.9	16330.9	16050.9	15591.0	14971.1	14847.2	13761.4	12447.6	11085.9
10°	16082.9	16158.9	16314.9	16520.8	16734.8	16676.8	16210.9	16098.9	14919.1	13243.5	11365.8
12.5°	15299.1	15309.1	15483.0	15821.0	16436.9	17068.7	17076.7	17038.7	16024.9	14075.3	11673.8
15°	14909.1	14947.1	15011.1	15229.1	15813.0	16824.8	17548.6	17602.6	17038.7	14959.1	12001.7
17.5°	15165.1	15219.1	15165.1	15191.1	15529.0	16438.9	17630.6	17768.6	17924.6	15833.0	12311.6
20°	15859.0	15909.0	15813.0	15707.0	15773.0	16326.9	17572.6	17758.6	18618.4	16608.8	12571.6
22.5°	16794.8	16814.8	16668.8	16494.8	16446.8	16706.8	17620.6	17812.6	19174.3	17310.7	12735.6
25°	17824.6	17842.6	17660.6	17460.7	17346.7	17452.7	18014.5	18158.5	19664.2	17980.6	12829.5
27.5°	18946.4	18962.4	18734.4	18488.5	18356.5	18360.5	18664.4	18818.4	20186.1	18744.4	12905.5
30°	20132.1	20124.1	19914.2	19572.3	19404.3	19400.3	19600.2	19756.2	20942.0	19724.2	13009.5
32.5°	21463.9	21447.9	21149.9	20726.0	20536.1	20564.1	20742.0	20832.0	21879.8	20768.0	13195.5
35°	23217.6	23171.6	22721.6	22195.7	21845.8	21835.8	21985.8	22057.8	23075.6	22031.8	13505.4
37.5°	25493.1	25451.1	24841.2	24077.4	23585.5	23401.5	23579.5	23671.5	24781.3	23653.5	14003.3
40°	27736.7	27694.7	27332.8	26632.9	25875.0	25433.1	25573.1	25671.1	26910.8	25621.1	14631.2
42.5°	29284.4	29320.4	29446.4	29504.3	28794.5	27866.7	27930.6	28032.6	29148.4	27724.7	15349.1
45°	29692.3	29770.3	30482.2	31879.9	32145.8	31422.0	30752.1	30808.1	31422.0	29828.3	16066.9
47.5°	28466.5	28610.5	29984.3	32583.8	34835.3	35347.2	34079.5	34005.5	33603.6	31530.0	16576.8
50°	25681.1	25813.1	27592.7	31438.0	35651.2	39094.5	38066.7	37848.8	35517.2	32547.8	16756.8
52.5°	21649.9	21809.8	23255.5	27830.7	34113.5	40766.2	41842.0	41660.0	36920.9	32627.8	16786.8
55°	15289.1	15483.0	17012.7	21329.9	29240.4	39436.4	43179.7	43125.7	38086.7	32415.8	16850.8
57.5°	8592.4	8732.3	10382.0	13673.4	21415.9	34349.4	41782.0	42139.9	38790.6	32047.9	16946.8
60°	3815.3	3853.3	4707.1	6806.7	12537.6	26251.0	37780.8	38384.6	38186.7	31556.0	17108.7
62.5°	2115.6	2083.6	2083.6	2829.5	5449.0	16250.9	30808.1	31805.9	35609.2	30974.1	17116.7
65°	1657.7	1627.7	1541.7	1553.7	2075.6	7212.6	21333.9	23107.6	30714.1	29268.4	16540.8
67.5°	1405.7	1379.7	1293.8	1259.8	1289.8	2379.5	11721.8	13563.4	23305.5	24835.2	14327.3
70°	1187.8	1169.8	1125.8	1083.8	1007.8	1175.8	4485.1	5736.9	14361.2	16520.8	9780.1
72.5°	955.8	947.8	963.8	927.8	835.8	783.8	1533.7	1857.6	6450.8	7372.6	4029.2
75°	823.8	819.8	827.8	791.8	687.9	545.9	779.9	851.8	1819.7	1803.7	815.8
77.5°	535.9	541.9	685.9	669.9	591.9	363.9	403.9	435.9	551.9	413.9	248.0
80°	341.9	337.9	347.9	555.9	531.9	277.9	202.0	212.0	265.9	204.0	120.0
82.5°	208.0	204.0	228.0	260.0	267.9	194.0	124.0	126.0	166.0	132.0	64.0
85°	18.0	24.0	138.0	128.0	92.0	60.0	60.0	64.0	88.0	78.0	36.0
87.5°	0.0	0.0	24.0	36.0	20.0	22.0	22.0	24.0	34.0	34.0	18.0
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°	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0	10370.0
2.5°	10378.0	10170.1	9750.1	9346.2	9004.3	8674.3	8298.4	7926.5	7752.5	7682.5	7610.5
5°	10396.0	9968.1	9102.3	8230.4	7326.6	6512.8	5818.9	5107.0	4751.1	4595.1	4523.1
7.5°	10420.0	9768.1	8368.4	6904.7	5449.0	4345.2	3381.4	2761.5	2493.5	2451.5	2347.6
10°	10424.0	9526.2	7516.6	5441.0	3653.3	2619.5	2015.6	1695.7	1577.7	1557.7	1523.7
12.5°	10432.0	9240.2	6570.7	4029.2	2435.5	1751.7	1457.7	1351.7	1319.7	1317.7	1317.7
15°	10456.0	8940.3	5588.9	2903.4	1749.7	1387.7	1279.8	1237.8	1225.8	1231.8	1229.8
17.5°	10456.0	8586.4	4625.1	2163.6	1413.7	1247.8	1187.8	1159.8	1155.8	1161.8	1163.8
20°	10380.0	8156.4	3741.3	1683.7	1253.8	1157.8	1103.8	1077.8	1067.8	1071.8	1073.8
22.5°	10198.0	7628.5	3021.4	1393.7	1147.8	1075.8	1017.8	977.8	961.8	963.8	963.8
25°	9914.1	7002.7	2363.5	1205.8	1061.8	987.8	919.8	873.8	863.8	861.8	865.8
27.5°	9550.2	6310.8	1881.6	1061.8	959.8	889.8	821.8	783.8	775.9	777.9	779.9
30°	9192.2	5592.9	1483.7	939.8	845.8	779.9	727.9	709.9	709.9	715.9	717.9
32.5°	8864.3	4903.1	1173.8	833.8	743.9	683.9	653.9	651.9	661.9	665.9	667.9
35°	8582.4	4265.2	971.8	751.9	663.9	611.9	601.9	609.9	621.9	629.9	631.9
37.5°	8382.4	3695.3	849.8	683.9	601.9	559.9	557.9	573.9	589.9	607.9	611.9
40°	8298.4	3213.4	765.9	623.9	551.9	519.9	513.9	535.9	565.9	591.9	595.9
42.5°	8228.4	2819.5	693.9	565.9	511.9	465.9	463.9	491.9	527.9	553.9	559.9
45°	8168.4	2503.5	627.9	503.9	459.9	399.9	405.9	441.9	469.9	497.9	503.9
47.5°	8044.5	2243.6	555.9	437.9	379.9	341.9	353.9	385.9	407.9	449.9	455.9
50°	7822.5	2031.6	481.9	357.9	309.9	295.9	313.9	335.9	363.9	399.9	403.9
52.5°	7672.5	1871.6	417.9	299.9	256.0	260.0	277.9	285.9	301.9	315.9	311.9
55°	7586.5	1783.7	365.9	260.0	218.0	230.0	234.0	224.0	216.0	202.0	196.0
57.5°	7576.5	1703.7	325.9	226.0	192.0	198.0	184.0	150.0	122.0	106.0	102.0
60°	7560.6	1605.7	293.9	190.0	170.0	162.0	132.0	82.0	58.0	54.0	54.0
62.5°	7386.6	1453.7	269.9	160.0	144.0	122.0	76.0	38.0	32.0	34.0	34.0
65°	6832.7	1241.8	246.0	130.0	114.0	88.0	38.0	22.0	12.0	14.0	14.0
67.5°	5808.9	989.8	220.0	100.0	86.0	56.0	22.0	10.0	0.0	0.0	0.0
70°	3889.3	613.9	186.0	70.0	56.0	34.0	16.0	2.0	0.0	0.0	0.0
72.5°	1491.7	331.9	150.0	42.0	36.0	24.0	10.0	0.0	0.0	0.0	0.0
75°	335.9	218.0	104.0	30.0	26.0	16.0	4.0	0.0	0.0	0.0	0.0
77.5°	128.0	158.0	60.0	20.0	18.0	10.0	0.0	0.0	0.0	0.0	0.0
80°	62.0	94.0	28.0	12.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	36.0	12.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	18.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	6.0	2.0	2.0	0.0	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)