

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: McGRAW-EDISON

Report Number: P457057

Luminaire Tested: **GALN-SA8B-760-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35975 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

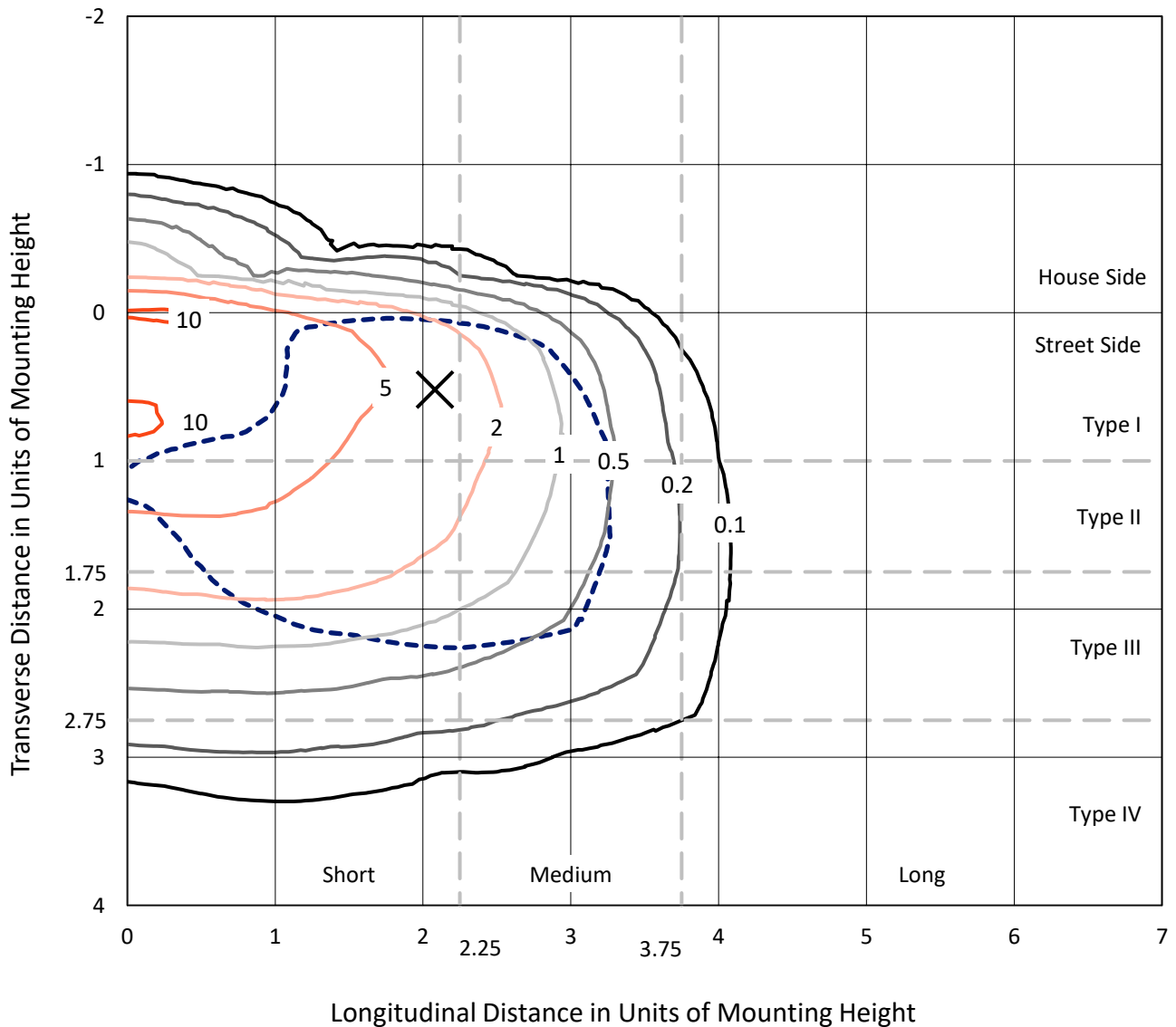
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

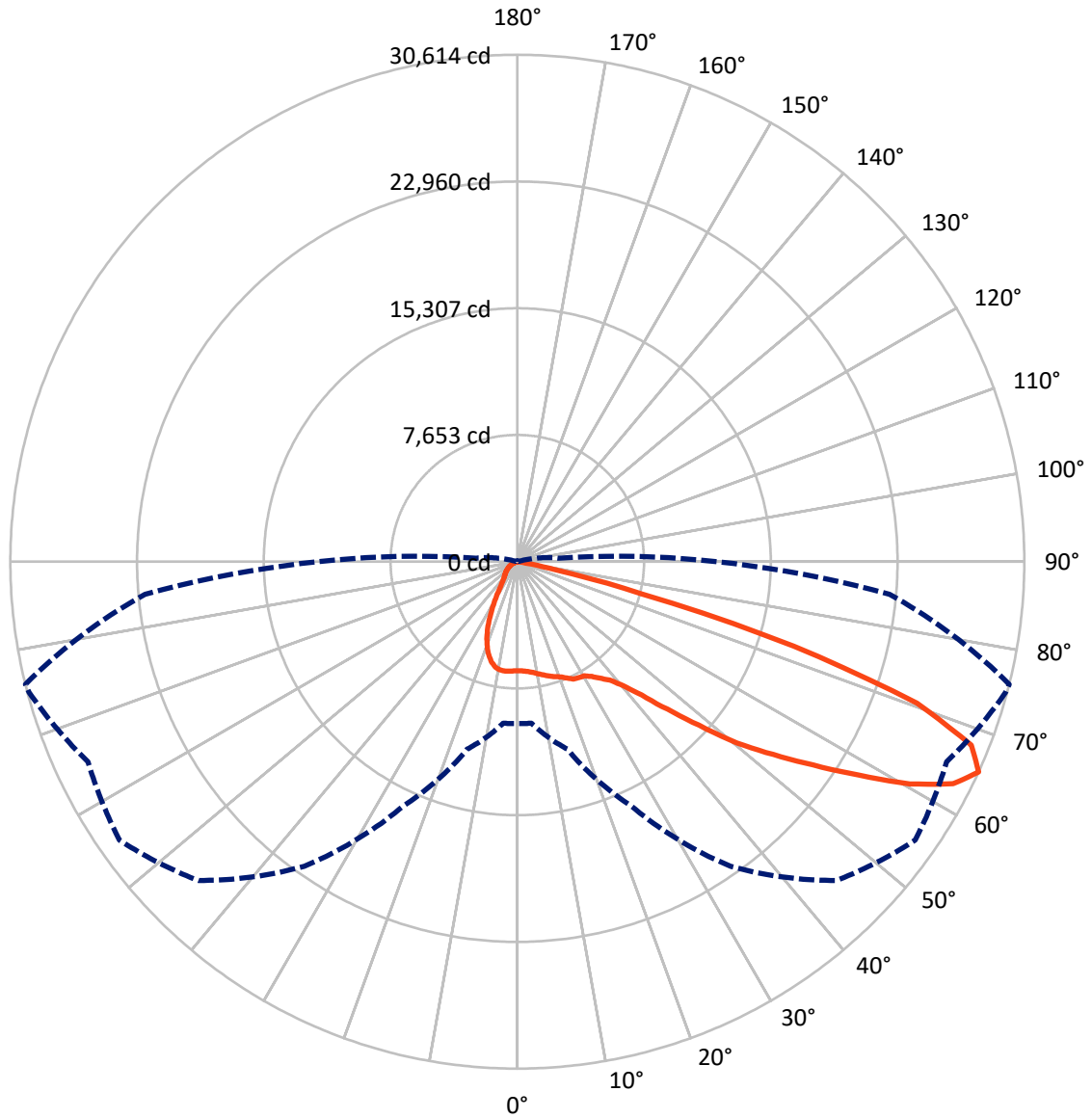
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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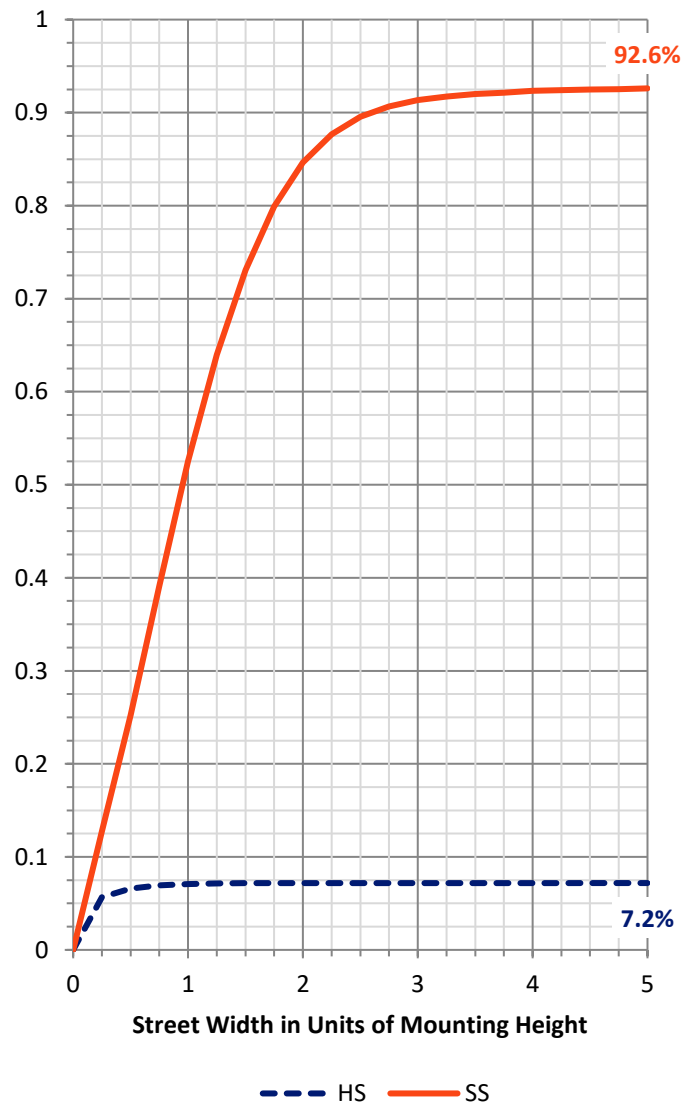
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2598.1	0.0	2598.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	33376.9	0.0	33376.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	35975.0	0.0	35975.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.1	1.5
10°-20°	1207.1	3.4
20°-30°	1945.1	5.4
30°-40°	3382.0	9.4
40°-50°	5588.6	15.5
50°-60°	8633.2	24.0
60°-70°	10542.4	29.3
70°-80°	4001.1	11.1
80°-90°	133.5	0.4
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°	35975.0	100.0
0°-180°	35975.0	100.0



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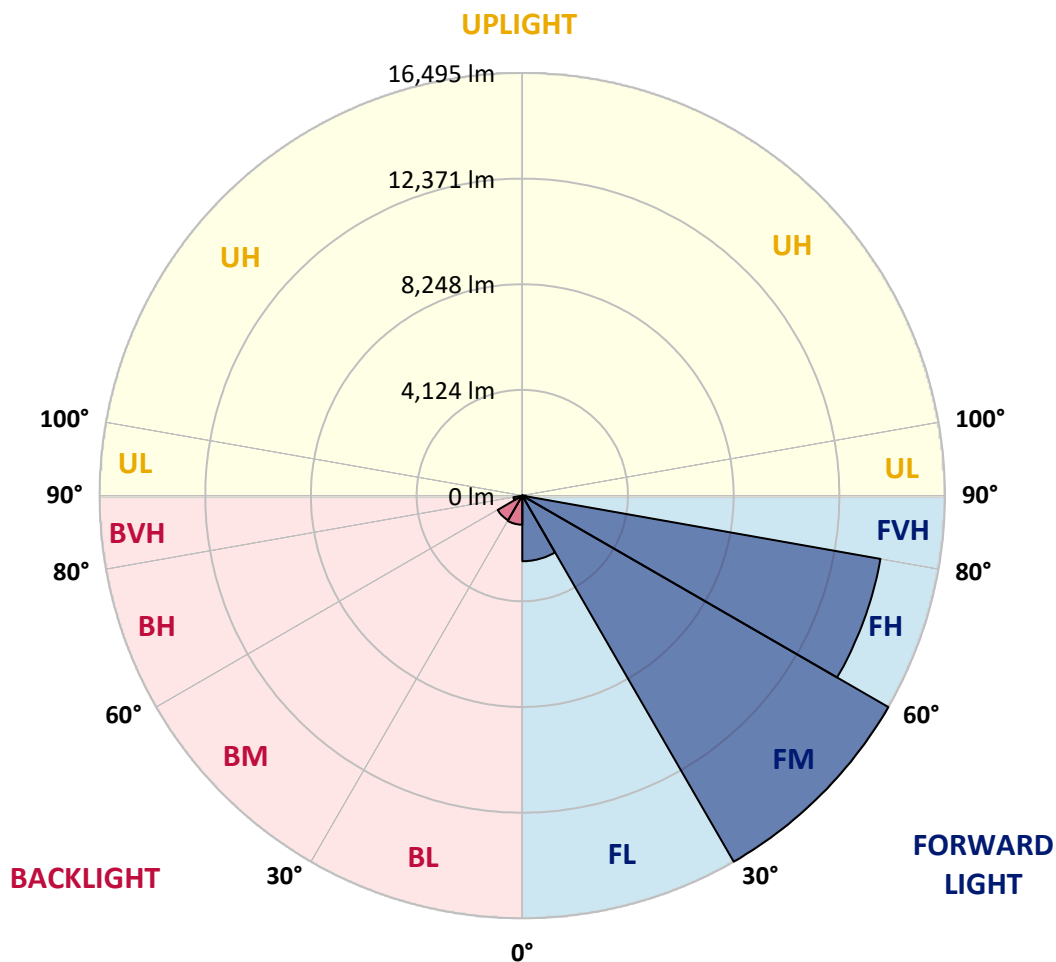
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2559.2	7.1			
FM	(30°-60°)	16495.1	45.9			
FH	(60°-80°)	14190.9	39.4			G5
FVH	(80°-90°)	131.7	0.4			G2/225
BL	(0°-30°)	1135.1	3.2	B3/2500		
BM	(30°-60°)	1108.7	3.1	B2/2500		
BH	(60°-80°)	352.5	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	65°	75°	76°	85°
0°	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0
2.5°	6288.9	6291.4	6306.7	6344.8	6403.2	6451.4	6492.1	6558.1	6603.8	6608.9	6624.2
5°	5854.6	5824.1	5854.6	5953.6	6042.5	6177.1	6342.2	6507.3	6654.6	6664.8	6735.9
7.5°	5366.9	5392.3	5440.5	5542.1	5709.8	5915.5	6154.3	6448.9	6728.3	6753.7	6893.4
10°	4871.6	4927.5	5006.2	5161.2	5394.8	5661.5	5986.6	6408.3	6845.1	6880.7	7122.0
12.5°	4414.4	4439.8	4536.3	4744.6	5034.2	5410.1	5859.6	6385.4	6974.7	7017.8	7365.8
15°	4063.9	4096.9	4180.7	4368.7	4691.3	5173.9	5755.5	6377.8	7101.7	7162.6	7609.6
17.5°	3997.9	4018.2	4053.7	4180.7	4462.7	4985.9	5661.5	6375.2	7223.6	7297.2	7835.7
20°	4269.6	4251.9	4216.3	4203.6	4358.5	4841.1	5592.9	6395.6	7340.4	7424.2	8074.5
22.5°	4950.3	4973.2	4764.9	4518.5	4467.7	4818.3	5582.8	6492.1	7525.8	7624.9	8341.2
25°	6395.6	6220.3	5895.2	5305.9	4861.4	4958.0	5697.1	6720.7	7741.7	7850.9	8582.4
27.5°	7993.2	7939.8	7434.4	6464.1	5636.1	5252.6	5900.3	6895.9	7812.8	7924.6	8719.6
30°	9562.9	9626.4	9047.3	7975.4	6761.3	5798.7	6090.8	6962.0	7876.3	7993.2	8894.9
32.5°	11018.2	11094.4	10586.5	9524.8	8087.2	6743.5	6418.4	7218.5	8143.0	8262.4	9187.0
35°	12163.8	12173.9	11790.4	10944.6	9534.9	7891.6	7127.1	7668.1	8503.7	8643.4	9496.8
37.5°	13215.3	13200.1	12750.5	12021.5	10741.4	9032.0	8018.6	8186.2	8915.2	9060.0	9943.9
40°	13995.1	14005.2	13860.4	13174.7	11866.6	10086.1	8724.7	8671.3	9606.0	9832.1	10594.1
42.5°	14515.7	14609.7	14680.8	14332.9	13281.3	11384.0	9809.2	9710.2	10804.9	10992.8	11513.5
45°	14937.4	15105.0	15460.6	15442.8	14640.2	12976.5	11297.6	11094.4	12504.1	12704.8	12684.4
47.5°	15244.7	15414.9	16004.1	16359.7	15917.8	14520.8	13169.6	12994.3	14533.5	14752.0	13977.3
50°	15402.2	15605.4	16357.2	17045.5	16916.0	16009.2	15303.1	15313.3	16984.6	17195.4	15475.8
52.5°	15033.9	15298.0	16545.1	17784.6	18036.1	17434.1	17302.0	17637.3	19166.4	19346.7	16829.6
55°	13857.9	14190.6	16288.6	18414.5	19334.0	19115.6	19572.8	20083.3	21551.4	21668.2	18219.0
57.5°	13113.7	13466.7	15531.7	18950.5	20893.5	21228.8	21952.7	22326.0	24012.6	24309.7	19814.0
60°	12486.3	12763.2	14909.4	19064.8	22478.4	23814.4	24518.0	24904.1	27050.3	27243.4	21569.1
62.5°	11442.4	11759.9	13857.9	18267.2	23276.0	25884.5	27342.4	27169.7	29399.8	29534.4	22646.1
65°	9763.5	9791.5	11724.3	16263.2	22453.0	27228.1	29326.1	28602.2	30522.4	30613.9	22562.3
67.5°	7287.1	7556.3	9019.3	12783.5	18965.7	26080.1	29968.7	28640.3	29813.8	29559.8	20771.6
70°	4693.8	4899.5	6113.6	8864.4	13675.0	21764.7	27837.7	26677.0	26166.4	25602.6	17002.3
72.5°	2166.6	2430.7	3632.1	5064.6	8110.0	15503.8	22597.8	21673.3	18833.6	17441.7	10807.4
75°	944.9	1010.9	1793.2	2672.0	3802.3	8198.9	14899.3	13454.0	8506.2	7769.7	4325.5
77.5°	576.6	619.7	939.8	1432.5	1493.5	3124.1	8026.2	5869.8	2628.8	2319.0	1173.5
80°	391.2	439.4	683.2	749.3	510.5	871.2	3012.4	1567.1	530.8	508.0	251.5
82.5°	190.5	241.3	505.4	419.1	221.0	279.4	876.3	335.3	154.9	144.8	88.9
85°	27.9	48.3	284.5	274.3	99.1	66.0	154.9	83.8	53.3	50.8	40.6
87.5°	0.0	0.0	96.5	43.2	10.2	10.2	17.8	17.8	20.3	17.8	20.3
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°	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0	6581.0
2.5°	6631.8	6644.5	6596.2	6527.6	6454.0	6380.3	6276.2	6182.2	6126.3	6159.3	6078.1
5°	6751.2	6741.0	6614.0	6405.7	6128.9	5796.1	5465.9	5184.0	5092.6	4955.4	4940.2
7.5°	6916.2	6888.3	6619.1	6141.6	5516.7	4891.9	4282.3	3878.5	3647.3	3451.8	3456.9
10°	7147.4	7066.1	6560.7	5676.8	4648.1	3705.8	2928.5	2395.2	2164.0	2090.4	2031.9
12.5°	7386.1	7228.7	6398.1	5049.4	3619.4	2532.3	1780.5	1455.4	1313.1	1267.4	1262.3
15°	7599.5	7350.6	6113.6	4295.0	2631.4	1617.9	1214.1	1107.4	1089.6	1092.2	1089.6
17.5°	7810.3	7447.1	5719.9	3495.0	1788.1	1160.8	1043.9	1018.5	1026.1	1036.3	1033.8
20°	7985.6	7467.4	5217.0	2666.9	1264.9	1018.5	980.4	975.3	983.0	990.6	990.6
22.5°	8176.1	7482.7	4620.1	1846.5	1033.8	947.4	927.1	927.1	937.2	947.4	949.9
25°	8318.3	7398.8	3906.4	1325.8	911.8	878.8	868.7	871.2	881.4	886.4	883.9
27.5°	8341.2	7162.6	3149.5	1016.0	828.0	795.0	784.8	795.0	782.3	789.9	784.8
30°	8361.5	6862.9	2382.5	856.0	751.8	701.0	685.8	670.5	660.4	647.7	645.1
32.5°	8425.0	6509.9	1739.9	769.6	680.7	624.8	589.3	546.1	513.1	502.9	500.4
35°	8452.9	6085.7	1277.6	701.0	617.2	556.2	492.7	431.8	383.5	365.8	378.5
37.5°	8559.6	5674.2	990.6	650.2	561.3	485.1	403.8	327.7	281.9	271.8	276.9
40°	8778.0	5227.2	830.6	607.0	513.1	419.1	320.0	246.4	215.9	205.7	203.2
42.5°	9128.5	4782.7	739.1	566.4	464.8	353.1	251.5	193.0	167.6	160.0	160.0
45°	9555.2	4356.0	675.6	523.2	414.0	284.5	198.1	154.9	139.7	134.6	134.6
47.5°	10116.6	3982.6	622.3	480.0	358.1	226.1	160.0	134.6	124.5	127.0	129.5
50°	10685.5	3705.8	563.9	431.8	294.6	185.4	137.2	119.4	116.8	119.4	119.4
52.5°	11114.8	3543.2	485.1	365.8	231.1	154.9	121.9	111.8	109.2	104.1	104.1
55°	11693.9	3507.7	386.1	297.2	182.9	129.5	109.2	101.6	94.0	88.9	86.4
57.5°	12438.1	3548.3	297.2	231.1	142.2	106.7	96.5	83.8	73.7	63.5	63.5
60°	12900.3	3456.9	231.1	177.8	104.1	86.4	73.7	61.0	48.3	40.6	38.1
62.5°	12753.0	3070.8	182.9	132.1	73.7	63.5	48.3	40.6	27.9	20.3	17.8
65°	11993.6	2479.0	147.3	91.4	53.3	38.1	25.4	25.4	12.7	2.5	0.0
67.5°	10497.6	1836.4	116.8	61.0	30.5	17.8	12.7	7.6	0.0	0.0	0.0
70°	8544.3	1325.8	91.4	38.1	17.8	12.7	5.1	2.5	0.0	0.0	0.0
72.5°	5425.3	759.4	71.1	22.9	12.7	5.1	0.0	0.0	0.0	0.0	0.0
75°	2098.0	297.2	48.3	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	594.3	139.7	27.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	154.9	61.0	15.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.7	25.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.2	10.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	2.5	0.0	0.0	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)