

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: P459458

Luminaire Tested: **GALN-SA9A-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28871 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

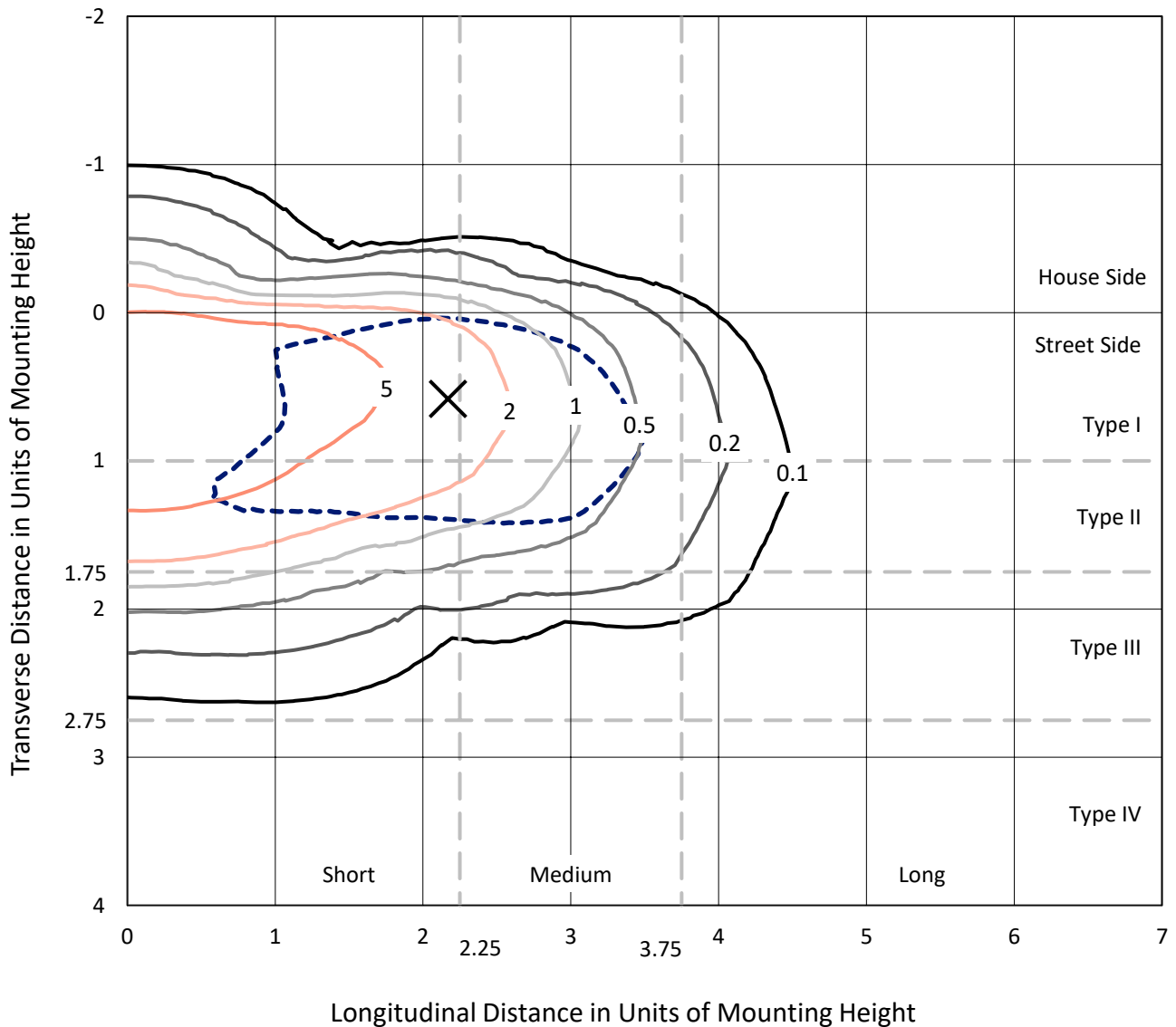
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

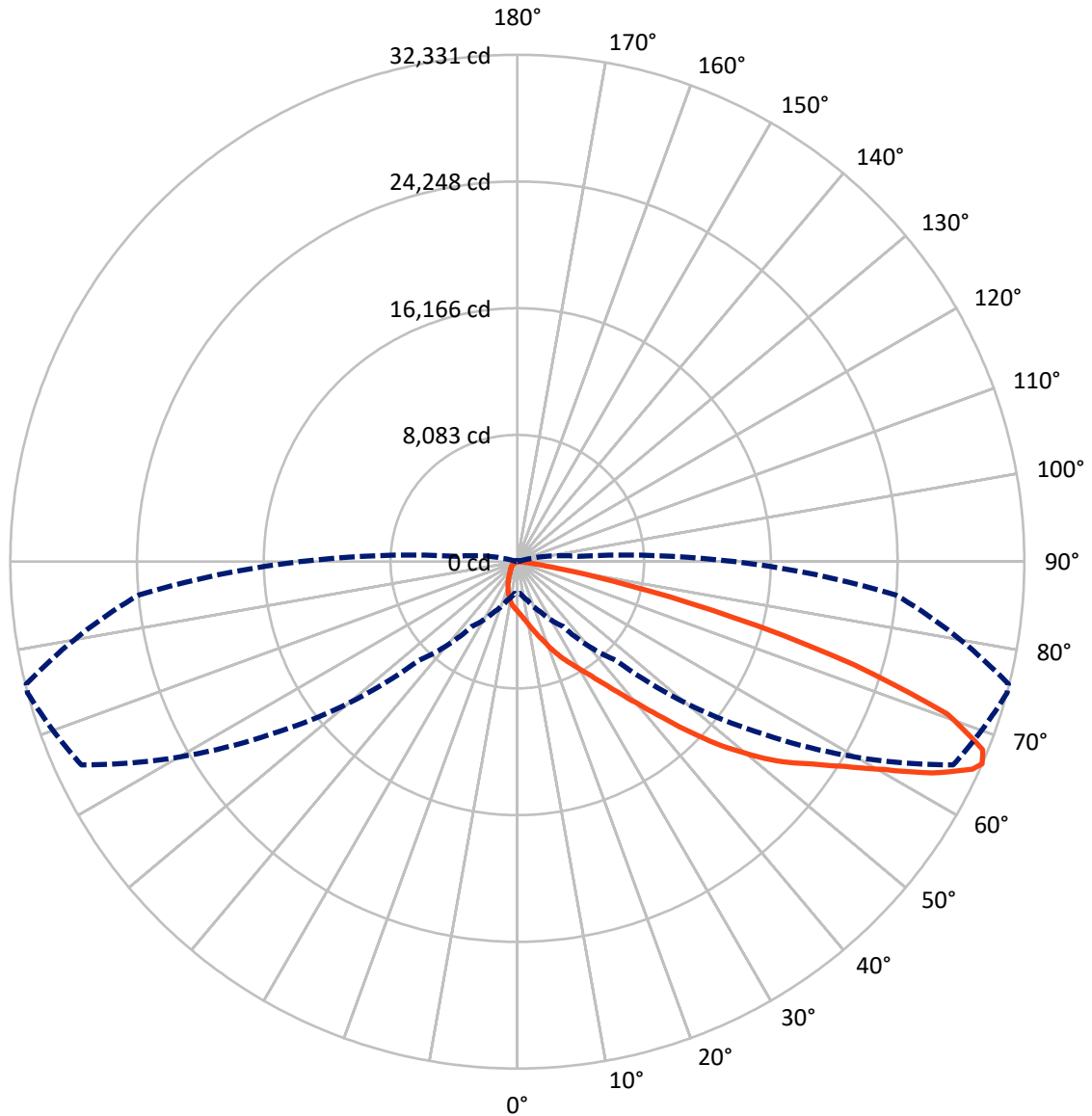
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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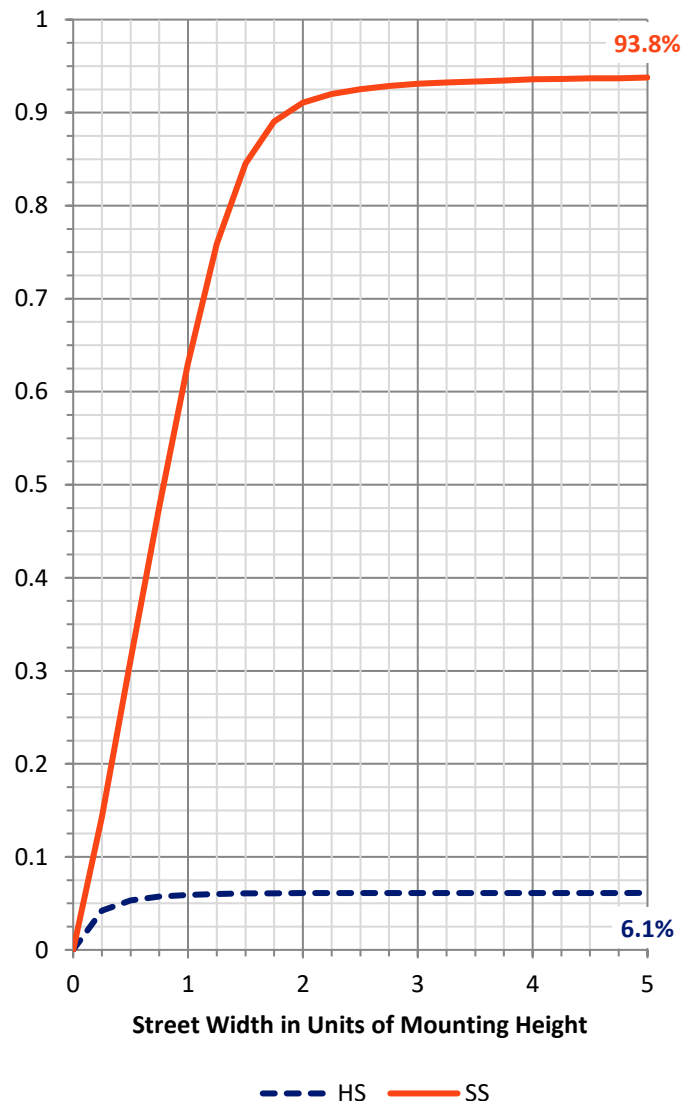
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1782.4	0.0	1782.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	27088.6	0.0	27088.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	28871.0	0.0	28871.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.1
10°-20°	896.2	3.1
20°-30°	1547.6	5.4
30°-40°	2791.6	9.7
40°-50°	5043.1	17.5
50°-60°	7862.2	27.2
60°-70°	7468.7	25.9
70°-80°	2799.1	9.7
80°-90°	157.9	0.5
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°	28871.0	100.0
0°-180°	28871.0	100.0



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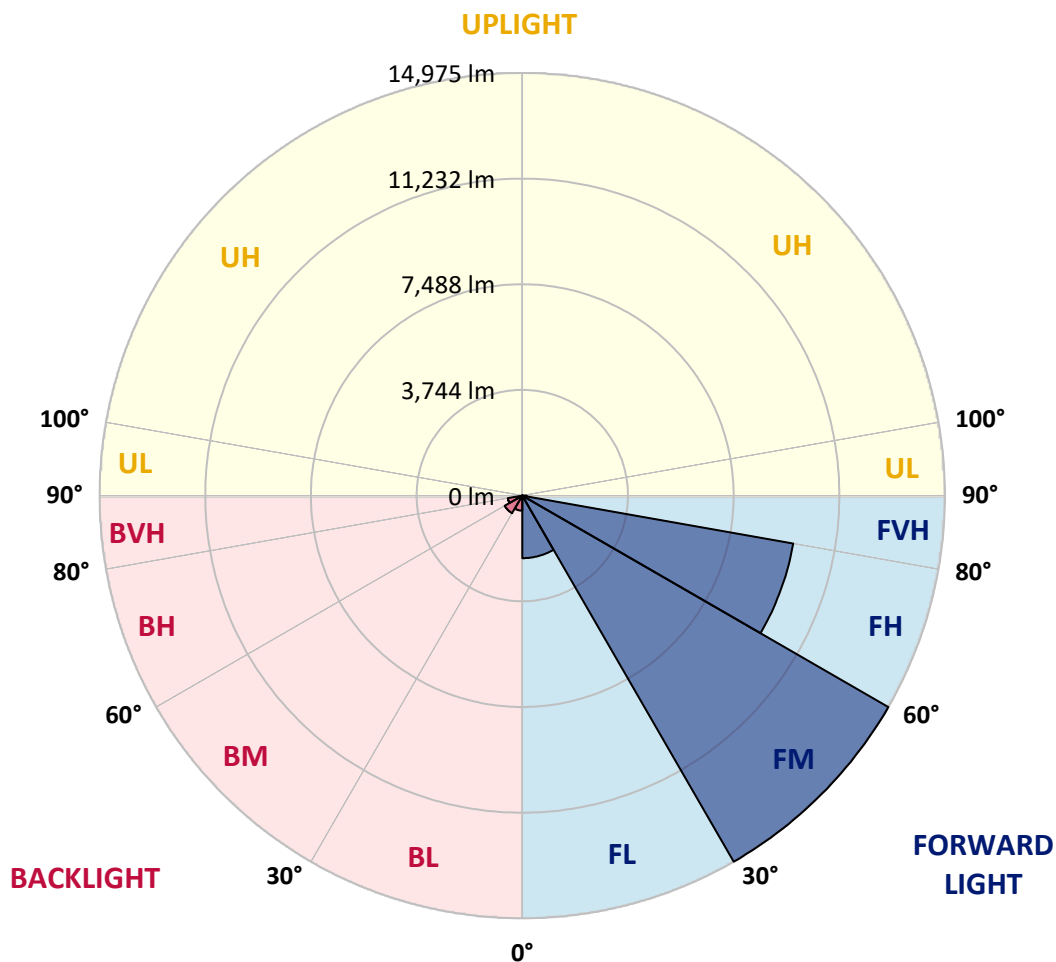
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2216.1	7.7			
FM	(30°-60°)	14975.4	51.9			
FH	(60°-80°)	9747.4	33.8			G4/12000
FVH	(80°-90°)	149.8	0.5			G2/225
BL	(0°-30°)	532.3	1.8	B2/1000		
BM	(30°-60°)	721.5	2.5	B1/1000		
BH	(60°-80°)	520.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	8.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3
2.5°	3772.1	3725.2	3740.1	3718.8	3669.7	3597.1	3533.0	3441.3	3349.5	3334.5	3232.0
5°	4269.5	4256.7	4239.7	4177.8	4143.6	4032.6	3900.2	3742.3	3552.3	3518.1	3332.4
7.5°	4609.0	4602.6	4611.1	4579.1	4549.2	4448.9	4308.0	4092.4	3797.8	3778.5	3469.0
10°	4720.0	4737.1	4769.1	4820.3	4867.3	4835.3	4728.5	4459.5	4115.8	4060.3	3624.8
12.5°	4655.9	4675.2	4752.0	4888.6	5040.2	5127.7	5085.0	4888.6	4453.1	4408.3	3799.9
15°	4491.6	4515.0	4623.9	4835.3	5106.4	5354.0	5460.7	5319.9	4845.9	4773.4	4011.2
17.5°	4248.2	4282.4	4438.2	4717.8	5089.3	5516.3	5817.3	5770.3	5264.4	5196.0	4241.8
20°	4064.6	4090.2	4222.6	4542.8	5016.7	5605.9	6156.7	6289.0	5781.0	5663.6	4512.9
22.5°	4186.3	4194.8	4239.7	4431.8	4886.5	5629.4	6455.6	6829.1	6329.6	6225.0	4794.7
25°	4781.9	4696.5	4651.7	4609.0	4858.7	5608.0	6726.7	7392.7	6876.1	6765.1	5074.4
27.5°	5721.2	5682.8	5456.5	5153.3	5095.7	5635.8	6906.0	7926.4	7390.6	7271.0	5347.6
30°	6743.7	6677.6	6538.8	6094.8	5648.6	5832.2	7036.2	8445.2	7999.0	7841.0	5597.4
32.5°	7683.0	7725.7	7518.7	7061.8	6545.2	6250.6	7204.9	9010.9	8697.1	8500.7	5887.7
35°	8778.2	8863.6	8545.5	8107.9	7503.7	7006.3	7533.6	9649.2	9583.0	9335.4	6336.0
37.5°	9890.4	9941.6	9747.4	9132.6	8588.2	7967.0	8152.7	10436.9	10673.9	10462.5	6871.8
40°	10825.4	10895.9	10752.9	10206.3	9625.7	9079.2	9051.4	11295.1	11971.8	11754.1	7670.2
42.5°	11540.6	11594.0	11598.2	11211.8	10688.8	10441.2	10197.8	12390.2	13598.5	13346.6	8596.7
45°	12443.6	12520.4	12475.6	12213.0	11822.4	11777.5	11651.6	13713.8	15545.4	15227.3	9798.6
47.5°	13839.7	13891.0	13780.0	13470.4	13073.3	13143.8	13069.1	15197.4	17530.8	17257.5	11043.2
50°	14808.9	14894.3	15052.3	15176.1	14887.9	14627.5	14405.4	16582.9	19415.8	19170.3	12315.5
52.5°	14798.2	14939.1	15438.7	16062.0	16691.8	16612.8	15974.5	18113.5	21215.4	20912.2	13511.0
55°	13801.3	14074.6	14808.9	15914.7	17658.8	18527.7	18237.4	19885.4	22769.5	22564.6	14896.4
57.5°	11743.4	11909.9	12930.3	14475.9	17118.7	19428.6	20858.9	22287.0	24633.1	24537.1	17048.3
60°	7898.7	7973.4	9286.3	11196.9	14574.1	18529.8	22780.2	25192.5	26928.0	26881.1	19560.9
62.5°	4525.7	4557.7	5509.8	7121.6	10370.7	15703.4	22942.4	28776.7	29679.7	29705.4	22468.5
65°	2435.8	2452.9	3221.4	4179.9	6310.4	11192.6	20630.4	30740.7	31904.2	31953.3	24270.2
66°	2102.8	2021.6	2563.9	3562.9	5021.0	8908.4	19168.1	30670.3	32331.1	32277.8	24206.2
67.5°	1598.9	1671.5	2047.2	2738.9	3720.9	6333.9	15825.1	29306.2	32006.7	31840.1	23222.1
70°	1144.2	1174.1	1458.0	1953.3	2534.0	3475.4	10112.4	24340.7	29090.6	28866.4	20231.2
72.5°	738.6	770.7	1033.2	1413.2	1831.6	1897.8	5661.4	17586.3	22427.9	22395.9	15235.9
75°	527.3	557.2	683.1	1011.9	1376.9	1174.1	2726.1	11852.3	14258.1	14162.1	9425.0
77.5°	382.1	397.1	456.8	661.8	984.1	841.1	1263.8	6329.6	7098.1	7433.3	4164.9
80°	219.9	232.7	318.1	403.5	666.0	574.3	604.1	2540.4	2619.4	2493.4	1302.2
82.5°	108.9	123.8	190.0	275.4	416.3	386.4	277.5	764.2	806.9	785.6	328.8
85°	25.6	32.0	106.7	181.5	202.8	172.9	134.5	224.2	277.5	271.1	126.0
87.5°	2.1	4.3	38.4	32.0	34.2	57.6	47.0	57.6	89.7	83.3	44.8
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°	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3	3157.3
2.5°	3185.1	3144.5	3027.1	2911.8	2815.8	2715.4	2623.6	2570.3	2548.9	2525.4	2536.1
5°	3229.9	3131.7	2894.8	2689.8	2489.1	2318.4	2181.7	2094.2	2051.5	2045.1	2034.4
7.5°	3289.7	3121.0	2753.9	2433.6	2171.1	1981.1	1825.2	1699.3	1660.9	1626.7	1598.9
10°	3362.3	3101.8	2578.8	2164.7	1885.0	1645.9	1441.0	1291.5	1214.7	1193.3	1208.3
12.5°	3439.1	3065.5	2395.2	1917.0	1594.7	1289.4	1099.4	1024.7	1003.3	994.8	996.9
15°	3516.0	3020.7	2203.1	1677.9	1270.2	1029.0	941.4	922.2	913.7	909.4	905.1
17.5°	3586.4	2948.1	1987.5	1445.2	1029.0	879.5	847.5	830.4	813.3	806.9	796.3
20°	3669.7	2864.9	1793.2	1184.8	871.0	796.3	757.8	725.8	700.2	683.1	681.0
22.5°	3748.7	2758.1	1590.4	982.0	794.1	715.1	653.2	619.1	589.2	567.8	574.3
25°	3791.4	2627.9	1409.0	856.0	723.7	634.0	565.7	523.0	491.0	480.3	478.2
27.5°	3791.4	2467.8	1231.8	783.5	659.6	561.4	491.0	450.4	429.1	414.1	416.3
30°	3761.5	2290.6	1067.4	728.0	604.1	497.4	431.2	394.9	377.9	367.2	365.0
32.5°	3738.0	2122.0	926.5	674.6	546.5	441.9	384.3	356.5	339.4	328.8	328.8
35°	3774.3	1976.8	817.6	621.2	493.1	399.2	348.0	322.4	305.3	296.7	294.6
37.5°	3870.3	1844.4	734.4	563.6	444.0	362.9	322.4	292.5	275.4	264.7	260.4
40°	4107.3	1769.7	672.5	510.2	397.1	333.0	292.5	264.7	243.4	232.7	230.6
42.5°	4487.3	1771.9	612.7	461.1	360.8	307.4	266.8	234.8	211.3	200.7	198.5
45°	5059.4	1853.0	565.7	414.1	328.8	279.7	239.1	204.9	183.6	172.9	172.9
47.5°	5744.7	2011.0	525.2	373.6	298.9	254.0	211.3	177.2	155.8	147.3	147.3
50°	6487.6	2215.9	484.6	330.9	273.3	226.3	181.5	153.7	136.6	130.2	130.2
52.5°	7245.4	2463.5	444.0	296.7	245.5	196.4	155.8	136.6	121.7	117.4	115.3
55°	8240.2	2779.5	401.3	260.4	215.6	168.6	138.8	119.5	102.5	96.1	93.9
57.5°	9770.9	3255.5	354.4	228.4	177.2	140.9	119.5	100.3	81.1	70.4	68.3
60°	11617.4	3836.2	305.3	200.7	143.0	115.3	96.1	76.9	59.8	47.0	44.8
62.5°	13346.6	4205.5	258.3	168.6	113.1	87.5	68.3	57.6	42.7	29.9	27.8
65°	14110.8	4081.7	213.5	136.6	89.7	61.9	44.8	40.6	25.6	12.8	10.7
66°	13856.8	3898.1	196.4	123.8	81.1	53.4	38.4	34.2	19.2	6.4	6.4
67.5°	13107.5	3464.7	170.8	106.7	70.4	42.7	29.9	25.6	10.7	2.1	0.0
70°	11231.0	2803.0	134.5	79.0	51.2	29.9	17.1	12.8	6.4	0.0	0.0
72.5°	8626.6	2087.8	106.7	59.8	36.3	17.1	8.5	4.3	6.4	0.0	0.0
75°	5285.7	1193.3	83.3	44.8	23.5	10.7	6.4	0.0	6.4	2.1	0.0
77.5°	2346.1	535.8	55.5	29.9	17.1	8.5	4.3	0.0	4.3	2.1	0.0
80°	593.5	175.1	32.0	21.3	12.8	6.4	2.1	0.0	4.3	4.3	2.1
82.5°	162.2	64.0	23.5	17.1	10.7	6.4	2.1	0.0	4.3	4.3	4.3
85°	64.0	29.9	21.3	17.1	12.8	6.4	2.1	0.0	4.3	4.3	4.3
87.5°	29.9	21.3	21.3	19.2	14.9	6.4	2.1	0.0	4.3	2.1	4.3
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)