

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: P459429

Luminaire Tested: **GALN-SA8D-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459429
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-SA8D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA 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: 43502 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

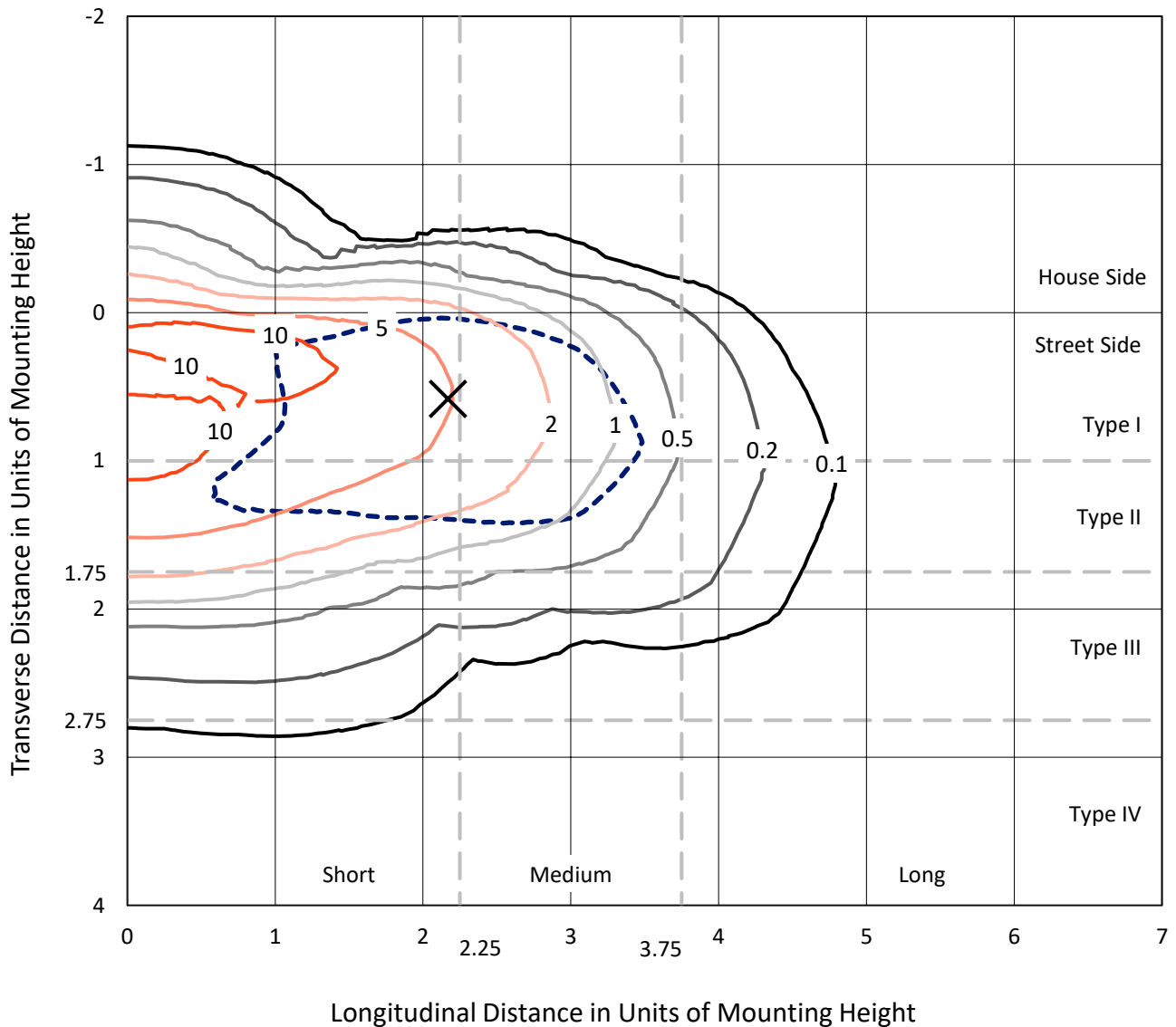
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459429
 CATALOG NUMBER: GALN-SA8D-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

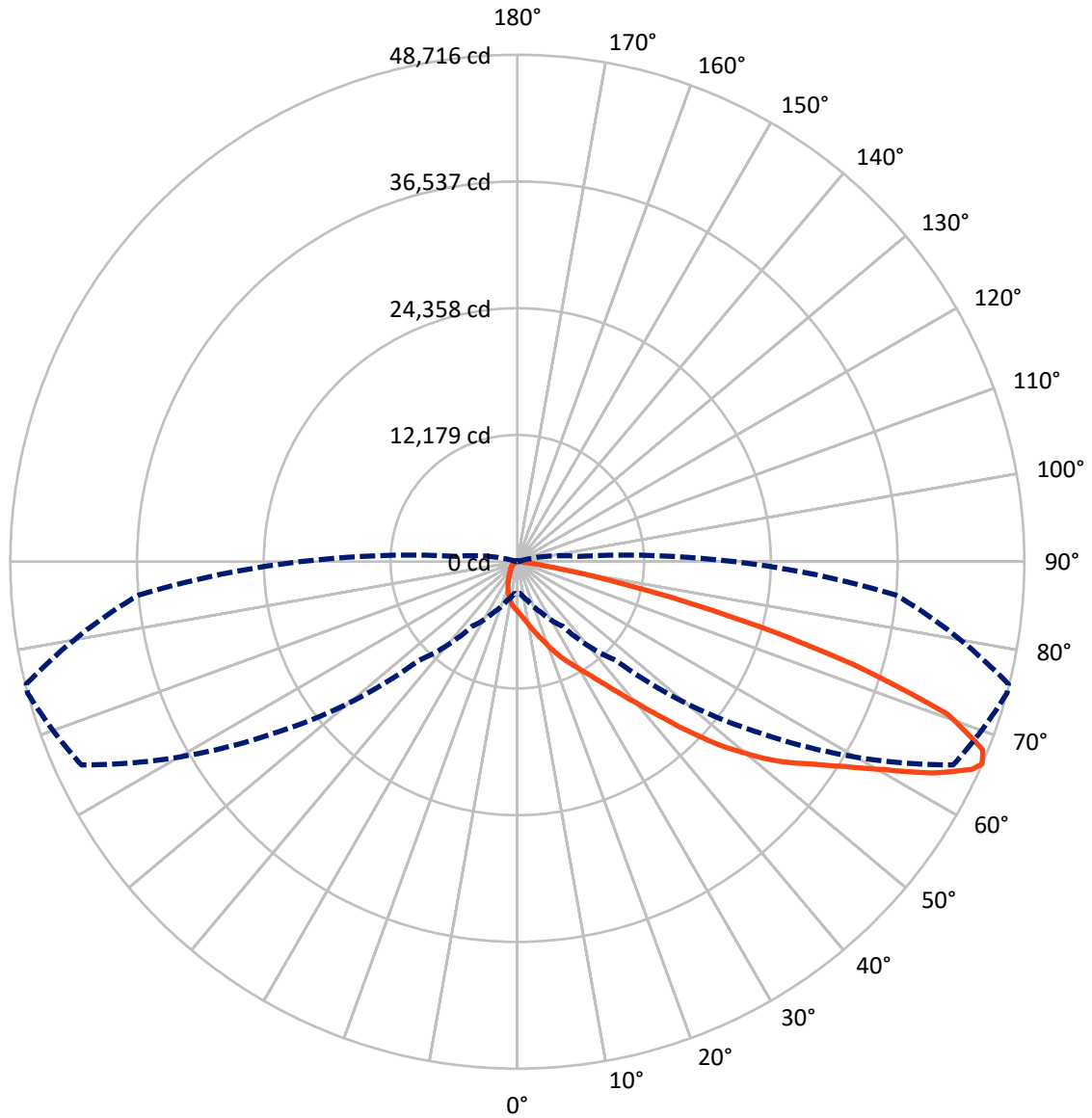
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

REPORT NUMBER: P459429
CATALOG NUMBER: GALN-SA8D-735-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459429

CATALOG NUMBER: GALN-SA8D-735-U-T2-HSS

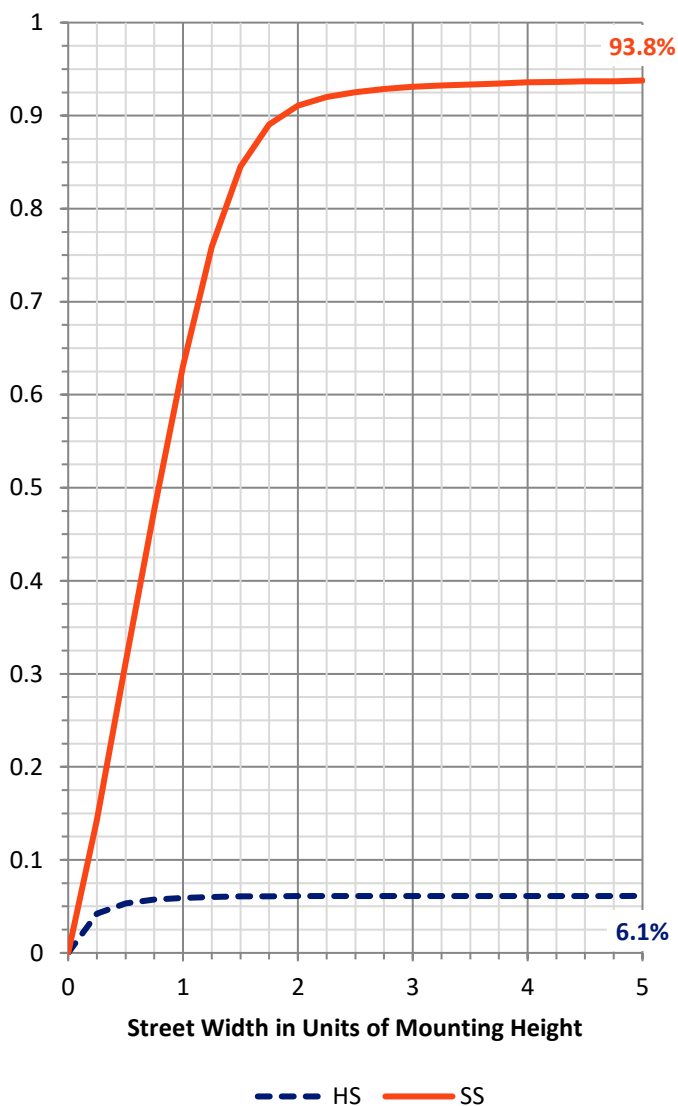
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2685.6	0.0	2685.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	40816.4	0.0	40816.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	43502.0	0.0	43502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	1.1
10°-20°	1350.4	3.1
20°-30°	2331.9	5.4
30°-40°	4206.3	9.7
40°-50°	7598.8	17.5
50°-60°	11846.5	27.2
60°-70°	11253.7	25.9
70°-80°	4217.6	9.7
80°-90°	237.9	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°	43502.0	100.0
0°-180°	43502.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459429

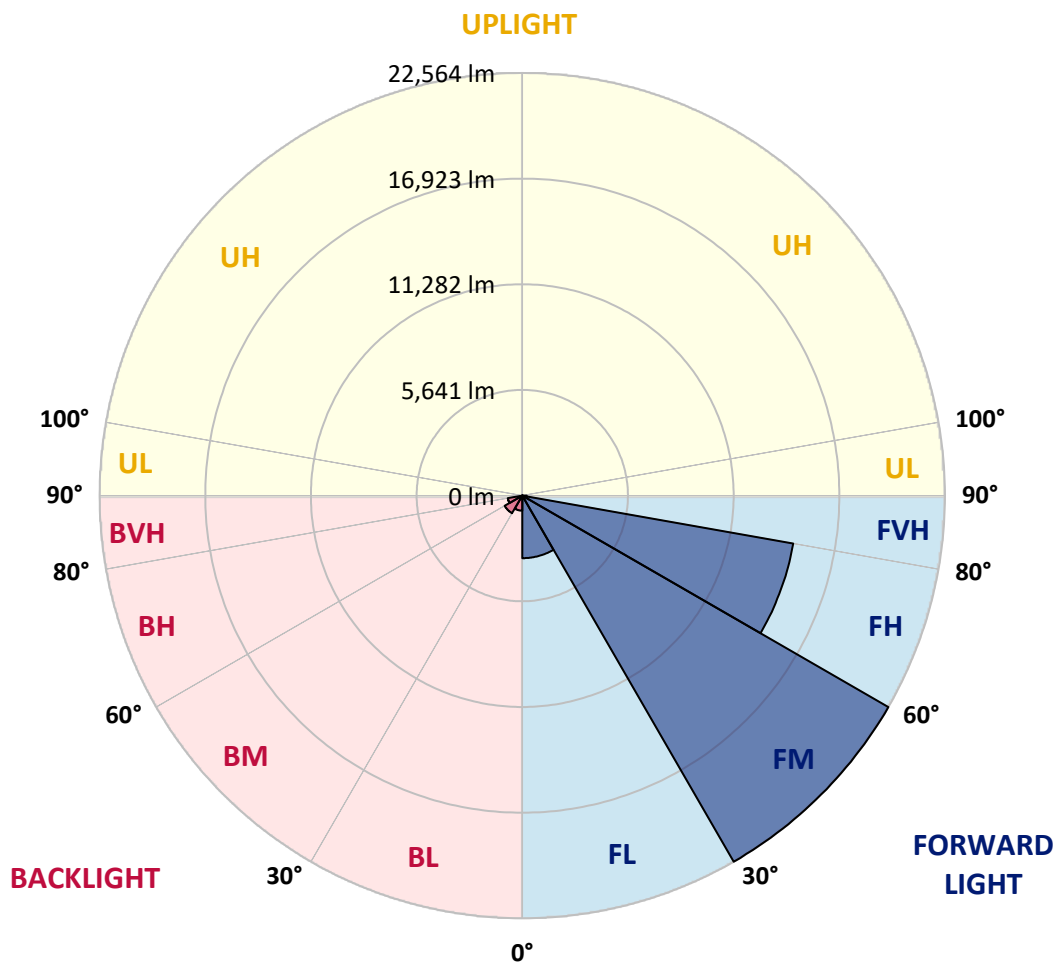
CATALOG NUMBER: GALN-SA8D-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3339.2	7.7			
FM	(30°-60°)	22564.5	51.9			
FH	(60°-80°)	14687.1	33.8			G5
FVH	(80°-90°)	225.7	0.5			G3/500
BL	(0°-30°)	802.0	1.8	B2/1000		
BM	(30°-60°)	1087.1	2.5	B2/2500		
BH	(60°-80°)	784.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





REPORT NUMBER: P459429

CATALOG NUMBER: GALN-SA8D-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4
2.5°	5683.8	5613.0	5635.5	5603.3	5529.4	5420.0	5323.5	5185.2	5046.9	5024.4	4870.0
5°	6433.2	6413.9	6388.2	6294.9	6243.4	6076.2	5876.8	5638.7	5352.4	5301.0	5021.1
7.5°	6944.7	6935.0	6947.9	6899.6	6854.6	6703.4	6491.1	6166.3	5722.4	5693.4	5227.0
10°	7111.9	7137.7	7185.9	7263.1	7333.9	7285.6	7124.8	6719.5	6201.6	6118.0	5461.8
12.5°	7015.4	7044.4	7160.2	7366.0	7594.4	7726.3	7662.0	7366.0	6709.9	6642.3	5725.6
15°	6767.8	6803.1	6967.2	7285.6	7694.1	8067.3	8228.1	8015.8	7301.7	7192.4	6044.0
17.5°	6401.1	6452.5	6687.3	7108.7	7668.4	8311.7	8765.3	8694.5	7932.2	7829.2	6391.4
20°	6124.4	6163.0	6362.5	6845.0	7559.0	8446.8	9276.7	9476.1	8710.6	8533.7	6799.9
22.5°	6307.8	6320.6	6388.2	6677.7	7362.8	8482.2	9727.0	10290.0	9537.3	9379.6	7224.5
25°	7205.2	7076.6	7009.0	6944.7	7321.0	8450.0	10135.6	11139.1	10360.7	10193.5	7645.9
27.5°	8620.5	8562.6	8221.7	7764.9	7678.1	8491.9	10405.7	11943.3	11135.9	10955.8	8057.6
30°	10161.3	10061.6	9852.5	9183.4	8511.2	8787.8	10602.0	12724.9	12052.7	11814.6	8434.0
32.5°	11576.6	11640.9	11328.9	10640.6	9862.1	9418.2	10856.1	13577.3	13104.5	12808.6	8871.4
35°	13226.7	13355.4	12876.1	12216.7	11306.4	10556.9	11351.4	14539.1	14439.4	14066.3	9546.9
37.5°	14902.6	14979.8	14687.1	13760.7	12940.4	12004.4	12284.3	15726.0	16083.1	15764.6	10354.3
40°	16311.5	16417.6	16202.1	15378.6	14503.7	13680.3	13638.4	17019.1	18038.8	17710.7	11557.3
42.5°	17389.0	17469.4	17475.9	16893.7	16105.6	15732.5	15365.8	18669.2	20489.8	20110.3	12953.3
45°	18749.6	18865.4	18797.9	18402.3	17813.6	17746.1	17556.3	20663.5	23423.4	22944.1	14764.3
47.5°	20853.3	20930.5	20763.3	20296.8	19698.6	19804.7	19692.1	22899.1	26414.8	26003.1	16639.5
50°	22313.7	22442.3	22680.4	22866.9	22432.7	22040.2	21705.7	24986.7	29255.1	28885.2	18556.7
52.5°	22297.6	22509.9	23262.6	24201.8	25150.7	25031.7	24069.9	27293.0	31966.7	31510.0	20358.0
55°	20795.4	21207.1	22313.7	23979.9	26607.8	27917.0	27479.5	29962.8	34308.4	33999.6	22445.5
57.5°	17694.6	17945.5	19483.0	21811.9	25794.0	29274.4	31429.5	33581.5	37116.5	36971.8	25687.9
60°	11901.5	12014.1	13992.3	16871.1	21959.8	27920.2	34324.5	37959.3	40574.4	40503.6	29473.8
62.5°	6819.2	6867.5	8302.1	10730.6	15626.3	23661.4	34569.0	43360.0	44720.6	44759.2	33854.9
65°	3670.2	3695.9	4853.9	6298.1	9508.3	16864.7	31085.4	46319.3	48072.3	48146.3	36569.7
66°	3168.4	3046.1	3863.2	5368.5	7565.5	13422.9	28882.0	46213.1	48715.6	48635.2	36473.2
67.5°	2409.2	2518.6	3084.7	4126.9	5606.6	9543.7	23844.8	44157.7	48226.7	47975.8	34990.3
70°	1724.1	1769.1	2196.9	2943.2	3818.1	5236.6	15237.1	36675.8	43832.8	43495.1	30483.9
72.5°	1112.9	1161.2	1556.8	2129.4	2759.9	2859.6	8530.5	26498.5	33793.8	33745.5	22957.0
75°	794.5	839.5	1029.3	1524.7	2074.7	1769.1	4107.6	17858.6	21483.8	21339.0	14201.4
77.5°	575.8	598.3	688.4	997.2	1482.9	1267.3	1904.2	9537.3	10695.2	11200.3	6275.6
80°	331.3	350.6	479.3	607.9	1003.6	865.3	910.3	3827.8	3946.8	3757.0	1962.1
82.5°	164.0	186.6	286.3	414.9	627.2	582.2	418.2	1151.5	1215.9	1183.7	495.4
85°	38.6	48.2	160.8	273.4	305.6	260.5	202.6	337.7	418.2	408.5	189.8
87.5°	3.2	6.4	57.9	48.2	51.5	86.8	70.8	86.8	135.1	125.4	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459429
 CATALOG NUMBER: GALN-SA8D-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4	4757.4
2.5°	4799.2	4738.1	4561.2	4387.5	4242.7	4091.5	3953.2	3872.8	3840.6	3805.3	3821.3
5°	4866.7	4718.8	4361.7	4052.9	3750.6	3493.2	3287.4	3155.5	3091.2	3081.5	3065.4
7.5°	4956.8	4702.7	4149.4	3666.9	3271.3	2985.0	2750.2	2560.4	2502.5	2451.1	2409.2
10°	5066.2	4673.7	3885.7	3261.6	2840.3	2480.0	2171.2	1946.1	1830.3	1798.1	1820.6
12.5°	5182.0	4619.1	3609.0	2888.5	2402.8	1942.8	1656.6	1544.0	1511.8	1498.9	1502.2
15°	5297.8	4551.5	3319.5	2528.3	1913.9	1550.4	1418.5	1389.6	1376.7	1370.3	1363.8
17.5°	5403.9	4442.1	2994.7	2177.6	1550.4	1325.2	1277.0	1251.3	1225.5	1215.9	1199.8
20°	5529.4	4316.7	2702.0	1785.2	1312.4	1199.8	1141.9	1093.6	1055.0	1029.3	1026.1
22.5°	5648.4	4155.9	2396.4	1479.6	1196.6	1077.6	984.3	932.8	887.8	855.6	865.3
25°	5712.7	3959.7	2123.0	1289.9	1090.4	955.3	852.4	788.1	739.8	723.7	720.5
27.5°	5712.7	3718.4	1856.0	1180.5	993.9	846.0	739.8	678.7	646.5	624.0	627.2
30°	5667.7	3451.4	1608.3	1096.9	910.3	749.5	649.8	595.1	569.3	553.3	550.0
32.5°	5632.3	3197.3	1396.0	1016.5	823.5	665.8	579.0	537.2	511.4	495.4	495.4
35°	5687.0	2978.6	1232.0	936.0	743.0	601.5	524.3	485.7	460.0	447.1	443.9
37.5°	5831.7	2779.2	1106.5	849.2	669.1	546.8	485.7	440.7	414.9	398.9	392.4
40°	6188.8	2666.6	1013.2	768.8	598.3	501.8	440.7	398.9	366.7	350.6	347.4
42.5°	6761.3	2669.8	923.2	694.8	543.6	463.2	402.1	353.8	318.4	302.4	299.1
45°	7623.4	2792.0	852.4	624.0	495.4	421.4	360.3	308.8	276.6	260.5	260.5
47.5°	8655.9	3030.1	791.3	562.9	450.3	382.8	318.4	267.0	234.8	221.9	221.9
50°	9775.3	3338.8	730.2	498.6	411.7	341.0	273.4	231.6	205.9	196.2	196.2
52.5°	10917.2	3712.0	669.1	447.1	369.9	295.9	234.8	205.9	183.3	176.9	173.7
55°	12416.1	4188.0	604.7	392.4	324.9	254.1	209.1	180.1	154.4	144.7	141.5
57.5°	14722.4	4905.3	534.0	344.2	267.0	212.3	180.1	151.2	122.2	106.1	102.9
60°	17504.8	5780.3	460.0	302.4	215.5	173.7	144.7	115.8	90.1	70.8	67.5
62.5°	20110.3	6336.7	389.2	254.1	170.5	131.9	102.9	86.8	64.3	45.0	41.8
65°	21261.8	6150.2	321.7	205.9	135.1	93.3	67.5	61.1	38.6	19.3	16.1
66°	20879.0	5873.5	295.9	186.6	122.2	80.4	57.9	51.5	28.9	9.6	9.6
67.5°	19750.0	5220.6	257.3	160.8	106.1	64.3	45.0	38.6	16.1	3.2	0.0
70°	16922.6	4223.4	202.6	119.0	77.2	45.0	25.7	19.3	9.6	0.0	0.0
72.5°	12998.3	3145.8	160.8	90.1	54.7	25.7	12.9	6.4	9.6	0.0	0.0
75°	7964.3	1798.1	125.4	67.5	35.4	16.1	9.6	0.0	9.6	3.2	0.0
77.5°	3535.1	807.4	83.6	45.0	25.7	12.9	6.4	0.0	6.4	3.2	0.0
80°	894.2	263.8	48.2	32.2	19.3	9.6	3.2	0.0	6.4	6.4	3.2
82.5°	244.5	96.5	35.4	25.7	16.1	9.6	3.2	0.0	6.4	6.4	6.4
85°	96.5	45.0	32.2	25.7	19.3	9.6	3.2	0.0	6.4	6.4	6.4
87.5°	45.0	32.2	32.2	28.9	22.5	9.6	3.2	0.0	6.4	3.2	6.4
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)