

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: P459473

Luminaire Tested: **GALN-SA9B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 39371 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

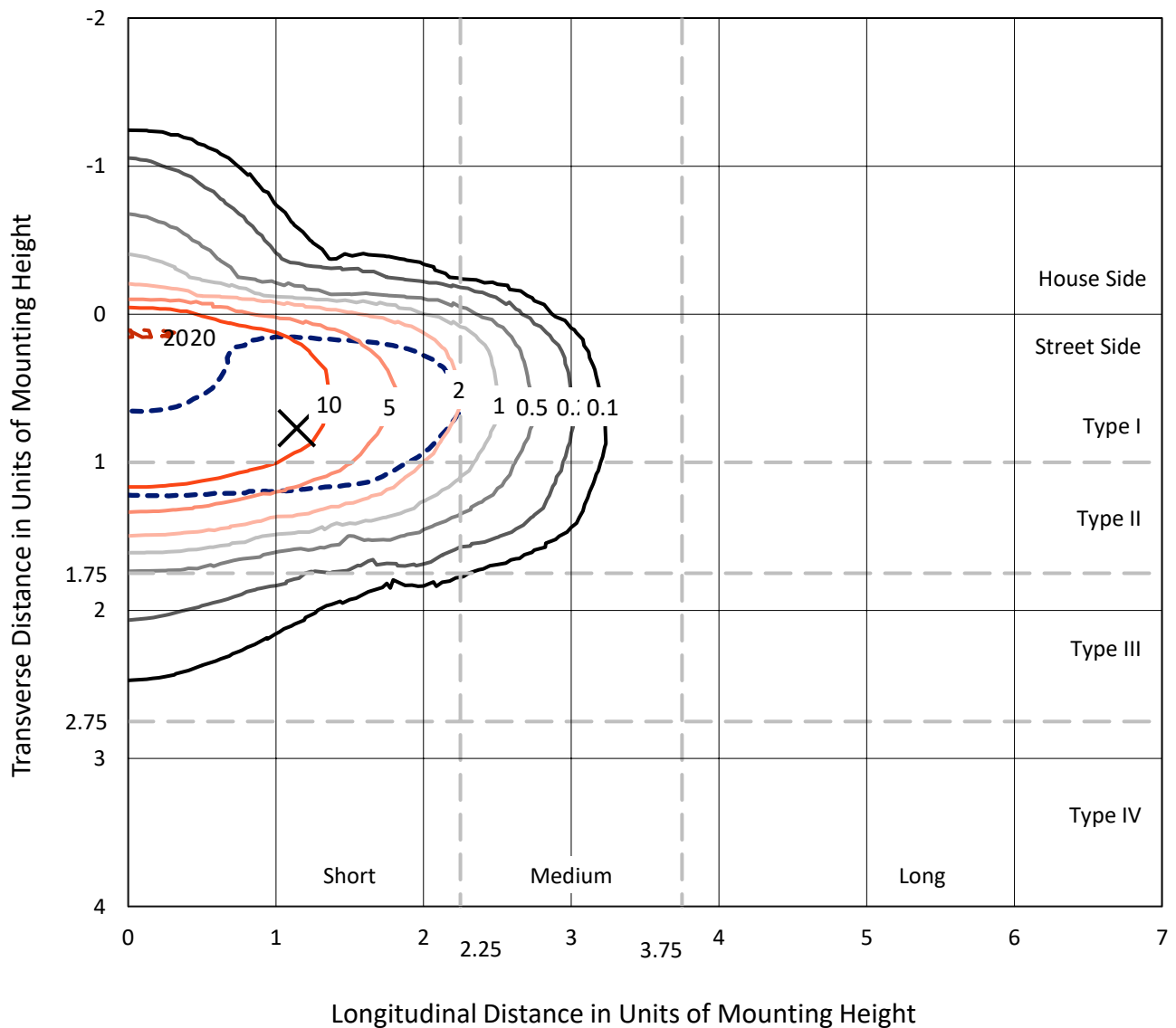
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

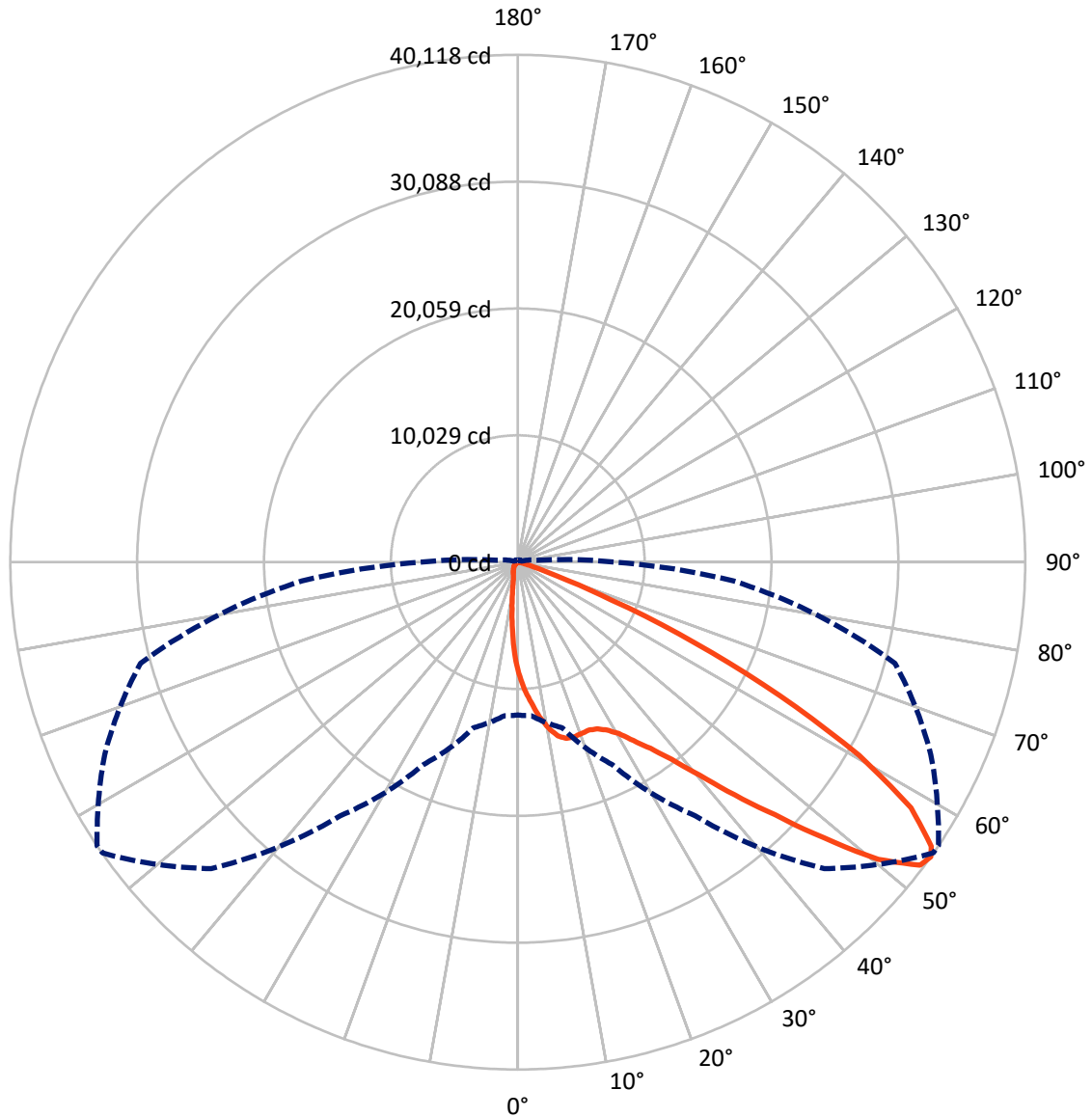
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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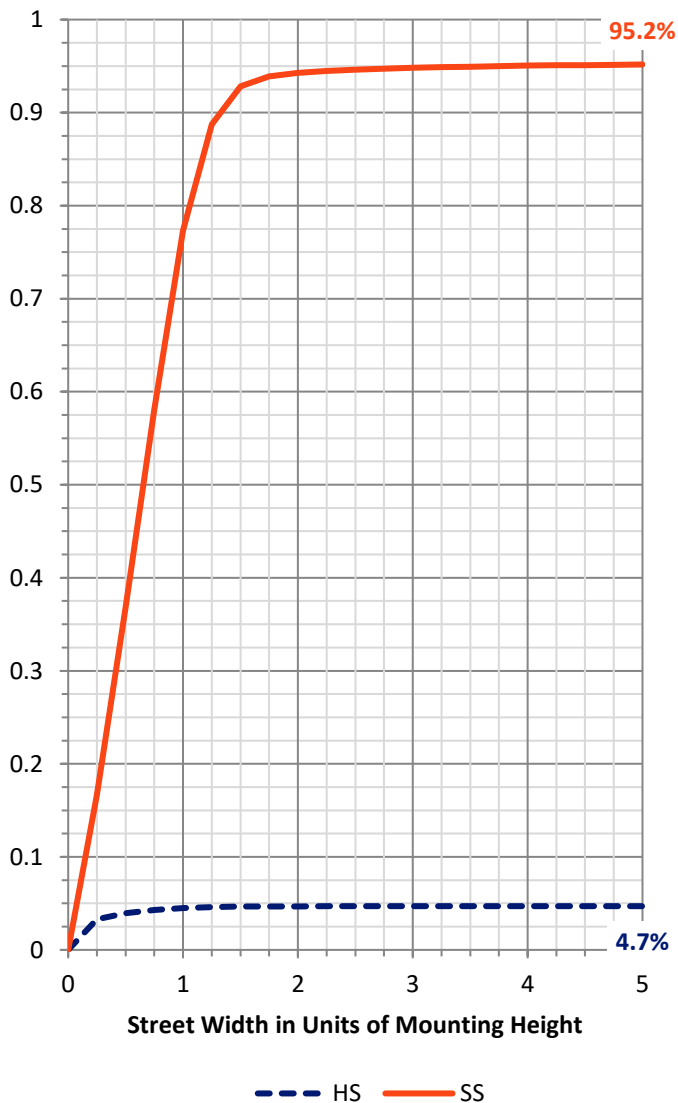
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1861.8	0.0	1861.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	37509.2	0.0	37509.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	39371.0	0.0	39371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.9	2.0
10°-20°	2089.5	5.3
20°-30°	3618.9	9.2
30°-40°	6246.8	15.9
40°-50°	10632.3	27.0
50°-60°	10521.9	26.7
60°-70°	4802.4	12.2
70°-80°	616.7	1.6
80°-90°	69.5	0.2
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°	39371.0	100.0
0°-180°	39371.0	100.0

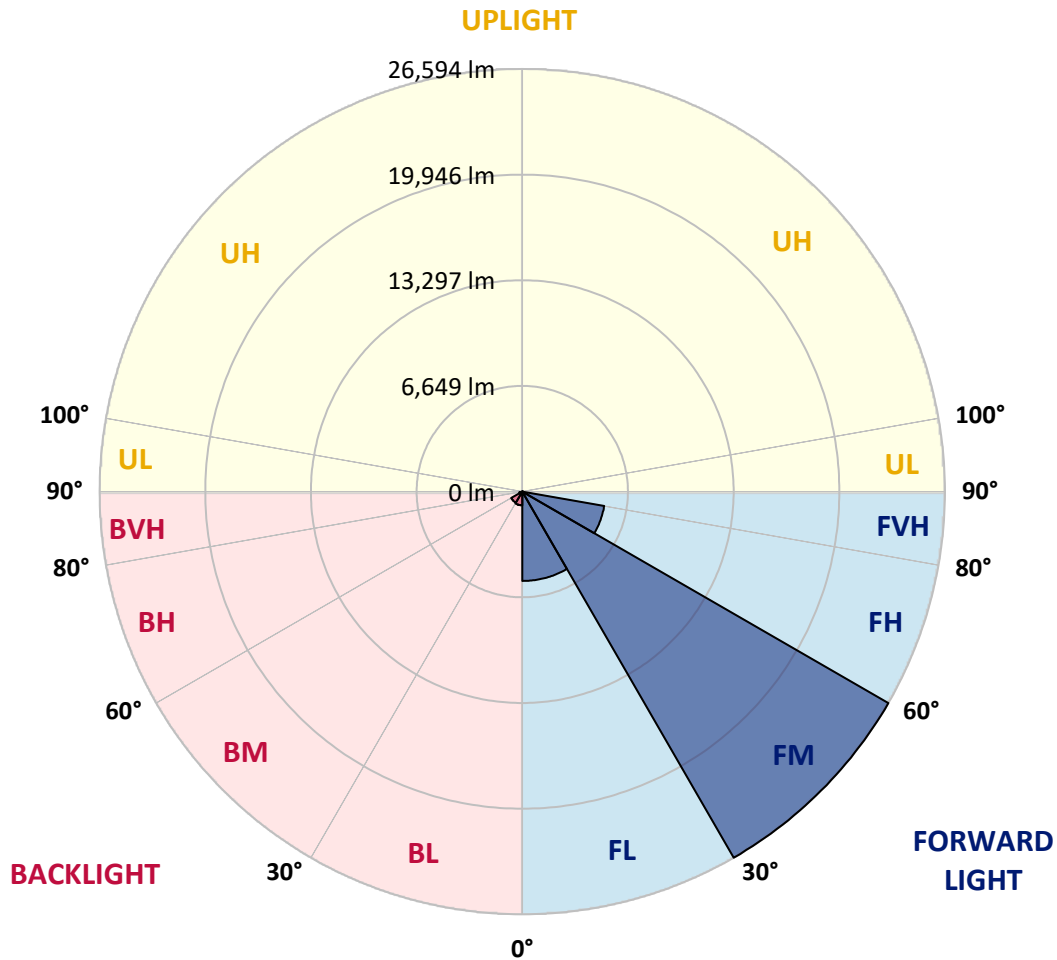


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5620.4	14.3			
FM	(30°-60°)	26594.1	67.5			
FH	(60°-80°)	5232.7	13.3			G3/7500
FVH	(80°-90°)	62.0	0.2			G1/100
BL	(0°-30°)	861.0	2.2	B2/1000		
BM	(30°-60°)	806.9	2.0	B1/1000		
BH	(60°-80°)	186.4	0.5	B1/500		G1/500
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1
2.5°	11116.5	11039.5	10933.2	10850.9	10657.0	10378.1	10083.2	10083.2	9799.0	9403.2	8999.5
5°	12821.8	12771.4	12667.8	12455.3	12237.4	11847.0	11254.6	11151.0	10643.7	9926.5	9172.1
7.5°	13515.1	13539.0	13544.3	13488.6	13385.0	12999.8	12412.8	12341.0	11530.9	10569.3	9397.9
10°	12851.0	12967.9	13082.1	13313.2	13640.0	13732.9	13400.9	13326.5	12529.6	11220.1	9642.3
12.5°	11862.9	11926.7	11990.4	12354.3	13010.4	13762.1	14110.1	14107.5	13432.8	11868.2	9953.1
15°	11403.4	11459.2	11464.5	11626.5	12194.9	13289.3	14412.9	14452.8	14314.7	12667.8	10287.7
17.5°	11499.0	11544.2	11507.0	11546.8	11844.3	12768.7	14378.4	14511.2	15029.2	13435.4	10590.6
20°	12123.2	12210.9	12067.4	11955.9	12046.2	12630.6	14261.5	14447.5	15533.9	14184.5	10866.8
22.5°	13244.2	13292.0	13111.4	12805.9	12646.5	12920.1	14229.7	14412.9	15964.2	14798.1	11026.2
25°	14490.0	14474.0	14274.8	13932.1	13597.5	13504.5	14439.5	14604.2	16320.1	15350.6	11074.0
27.5°	15735.8	15783.6	15448.9	15023.9	14622.8	14381.1	14909.7	15031.8	16721.2	15980.1	11132.4
30°	17183.4	17106.4	16777.0	16290.9	15831.4	15494.0	15666.7	15701.2	17273.7	16814.2	11286.5
32.5°	19066.7	18854.2	18485.0	17635.0	17305.6	16734.5	16777.0	16819.5	17945.8	17640.3	11472.4
35°	21622.1	21611.4	20888.9	19744.1	18941.9	18232.7	18046.7	18081.2	18963.1	18867.5	11884.2
37.5°	24698.0	24740.5	23917.1	22764.3	21287.4	20161.1	19778.6	19783.9	20509.1	20562.2	12511.0
40°	27202.9	27314.4	26823.0	26044.7	24586.5	22825.3	22182.5	22124.1	22681.9	22615.5	13406.2
42.5°	28281.3	28384.9	28568.2	28839.1	28037.0	26584.0	25067.2	25146.9	25316.9	24852.1	14410.3
45°	27752.7	27917.4	28637.3	30310.7	31065.1	30576.3	28767.4	28488.5	27768.7	27282.6	15419.7
47.5°	25550.7	25951.8	27155.1	29941.5	32581.8	34234.0	32943.1	32573.9	30223.1	29057.0	16062.5
50°	21930.2	21954.1	23630.2	27192.3	31795.6	36542.3	37206.4	36930.2	32510.1	30053.1	16386.5
52.5°	15897.8	16421.1	17956.4	22081.6	28390.2	36191.7	39923.8	39809.6	34868.9	30563.1	16854.0
54°	12086.0	12187.0	13552.3	17645.6	24477.5	34265.9	40091.1	40117.7	36040.3	30871.2	17130.3
55°	9907.9	9666.2	11100.6	15031.8	21808.0	32563.2	39543.9	39671.4	36566.2	31030.6	17334.8
57.5°	4696.3	4698.9	5796.0	7929.0	13658.6	25285.1	36199.7	36651.2	36624.7	31304.2	17964.4
60°	2377.4	2393.3	2635.0	3660.3	6746.9	16808.9	29930.9	31006.7	33806.4	31344.0	18171.6
62.5°	1662.8	1644.2	1604.4	1761.1	2839.6	8542.6	22283.5	23218.5	28722.3	29827.3	17512.8
65°	1423.8	1383.9	1272.4	1248.4	1434.4	3402.7	13879.0	15403.7	21930.2	25826.9	15637.5
67.5°	1216.6	1200.6	1099.7	1038.6	1014.7	1482.2	7161.3	7963.5	14989.3	18564.7	11844.3
70°	1033.3	1025.3	964.2	887.2	820.8	887.2	2656.3	3291.1	8354.0	9995.6	5588.8
72.5°	839.4	847.4	858.0	759.7	690.6	629.5	1134.2	1320.2	3495.7	3572.7	1955.0
75°	735.8	727.8	727.8	661.4	576.4	467.5	624.2	672.0	1070.5	993.4	454.2
77.5°	518.0	499.4	584.4	544.5	480.8	332.0	355.9	377.2	443.6	379.8	212.5
80°	358.6	358.6	374.5	488.8	433.0	241.7	217.8	233.8	263.0	225.8	122.2
82.5°	201.9	207.2	244.4	260.3	252.3	162.0	143.4	146.1	175.3	154.1	77.0
85°	23.9	39.8	140.8	138.1	103.6	71.7	79.7	82.3	108.9	95.6	45.2
87.5°	2.7	5.3	29.2	37.2	26.6	29.2	29.2	29.2	37.2	42.5	31.9
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°	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1	8747.1
2.5°	8781.6	8579.8	8099.0	7541.2	7185.2	6606.1	6117.4	5764.1	5676.5	5506.5	5556.9
5°	8771.0	8351.3	7371.2	6335.2	5230.2	4406.8	3793.2	3309.7	3097.2	2956.4	2858.1
7.5°	8776.3	8120.2	6547.7	4898.2	3578.0	2770.5	2202.0	1907.2	1710.6	1628.3	1638.9
10°	8792.3	7859.9	5591.5	3628.5	2414.6	1790.3	1442.4	1301.6	1235.2	1224.5	1221.9
12.5°	8829.4	7575.7	4677.7	2693.5	1689.4	1301.6	1168.8	1120.9	1099.7	1099.7	1091.7
15°	8869.3	7262.2	3918.0	2002.8	1301.6	1118.3	1057.2	1033.3	1020.0	1020.0	1017.4
17.5°	8869.3	6901.0	3208.8	1553.9	1120.9	1028.0	980.2	948.3	937.7	937.7	935.0
20°	8813.5	6481.3	2579.2	1251.1	1017.4	943.0	895.2	860.6	847.4	842.0	839.4
22.5°	8619.6	5920.8	2053.3	1075.8	932.4	868.6	807.5	767.7	757.0	751.7	754.4
25°	8274.3	5288.6	1625.6	945.6	855.3	778.3	725.2	695.9	685.3	685.3	688.0
27.5°	7918.3	4627.2	1288.3	847.4	762.4	693.3	650.8	632.2	629.5	637.5	640.2
30°	7589.0	3963.2	1043.9	767.7	680.0	621.6	592.3	587.0	587.0	589.7	592.3
32.5°	7222.4	3381.4	873.9	698.6	613.6	563.1	547.2	547.2	552.5	552.5	557.8
35°	6991.3	2882.1	767.7	632.2	563.1	520.6	510.0	512.7	520.6	531.3	536.6
37.5°	6866.5	2483.6	698.6	579.1	515.3	486.1	475.5	480.8	499.4	518.0	520.6
40°	6877.1	2183.5	642.8	533.9	478.1	446.3	438.3	454.2	472.8	491.4	494.1
42.5°	6994.0	1960.3	589.7	480.8	446.3	401.1	398.4	414.4	422.3	440.9	443.6
45°	7132.1	1798.3	533.9	425.0	387.8	348.0	350.6	363.9	374.5	403.8	409.1
47.5°	7174.6	1686.7	470.2	361.3	318.8	305.5	308.1	316.1	337.3	363.9	366.6
50°	7222.4	1617.7	409.1	305.5	270.9	268.3	270.9	276.3	289.5	300.2	297.5
52.5°	7426.9	1615.0	358.6	265.6	231.1	236.4	239.1	236.4	225.8	209.8	204.5
54°	7618.2	1623.0	334.7	247.0	212.5	220.5	217.8	204.5	178.0	162.0	154.1
55°	7772.3	1631.0	321.4	233.8	201.9	204.5	207.2	180.6	146.1	130.2	124.8
57.5°	8075.1	1612.4	289.5	204.5	178.0	167.3	164.7	119.5	79.7	69.1	63.8
60°	7923.7	1455.6	263.0	175.3	151.4	135.5	111.6	66.4	39.8	29.2	29.2
62.5°	7328.7	1235.2	233.8	143.4	124.8	103.6	58.4	37.2	18.6	10.6	8.0
65°	6555.7	1038.6	209.8	114.2	98.3	66.4	31.9	23.9	8.0	0.0	0.0
67.5°	4874.3	770.3	178.0	90.3	74.4	42.5	21.3	13.3	2.7	0.0	0.0
70°	2257.8	470.2	151.4	69.1	53.1	31.9	15.9	8.0	0.0	0.0	0.0
72.5°	648.1	294.8	124.8	50.5	37.2	26.6	13.3	5.3	2.7	0.0	0.0
75°	225.8	236.4	93.0	37.2	29.2	18.6	10.6	5.3	2.7	0.0	0.0
77.5°	135.5	191.3	58.4	31.9	23.9	15.9	10.6	5.3	2.7	2.7	0.0
80°	77.0	127.5	37.2	26.6	21.3	13.3	8.0	5.3	2.7	2.7	0.0
82.5°	42.5	61.1	29.2	23.9	18.6	13.3	8.0	5.3	2.7	2.7	2.7
85°	34.5	31.9	23.9	21.3	15.9	10.6	8.0	2.7	0.0	0.0	0.0
87.5°	26.6	21.3	21.3	21.3	15.9	10.6	8.0	2.7	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)