

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: P457762

Luminaire Tested: **GALN-SA9A-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457762
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-SA9A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 24970 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

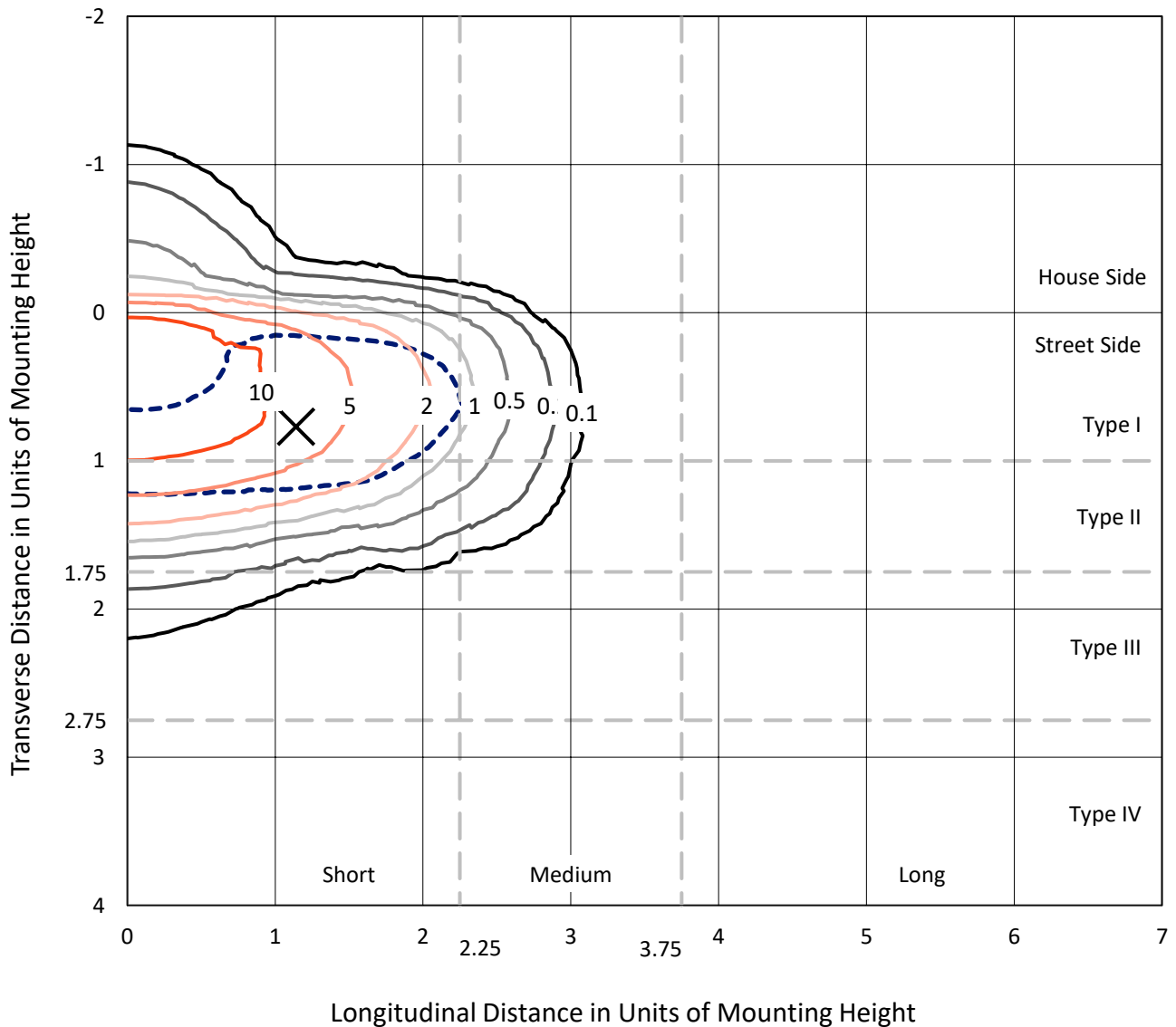
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

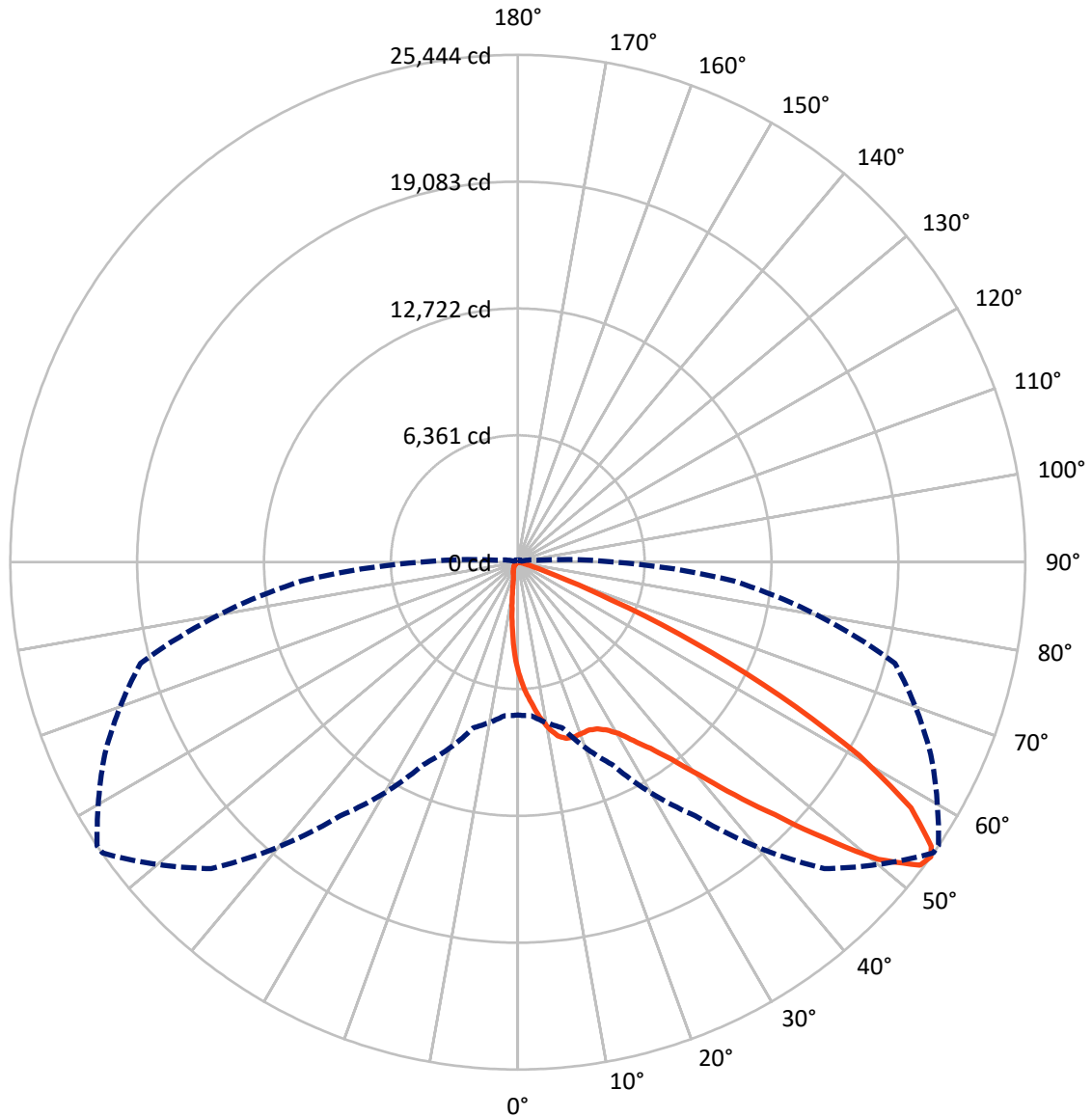
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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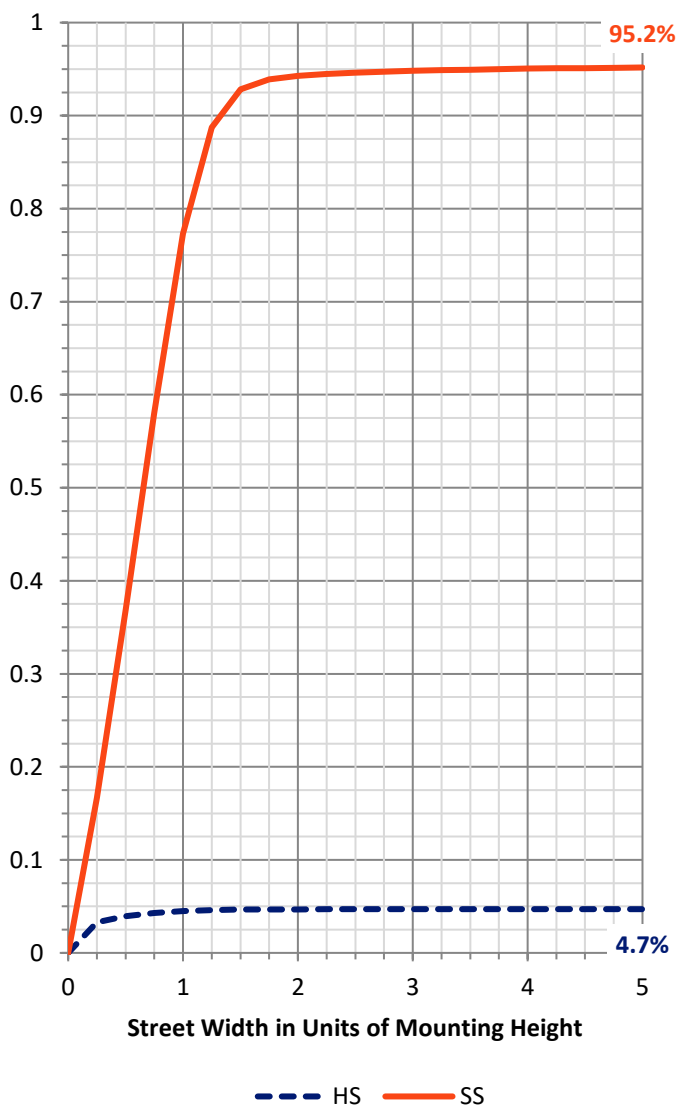
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.8	0.0	1180.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23789.2	0.0	23789.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	24970.0	0.0	24970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.2	2.0
10°-20°	1325.2	5.3
20°-30°	2295.2	9.2
30°-40°	3961.8	15.9
40°-50°	6743.2	27.0
50°-60°	6673.2	26.7
60°-70°	3045.8	12.2
70°-80°	391.2	1.6
80°-90°	44.1	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°	24970.0	100.0
0°-180°	24970.0	100.0

Coefficient of Utilization



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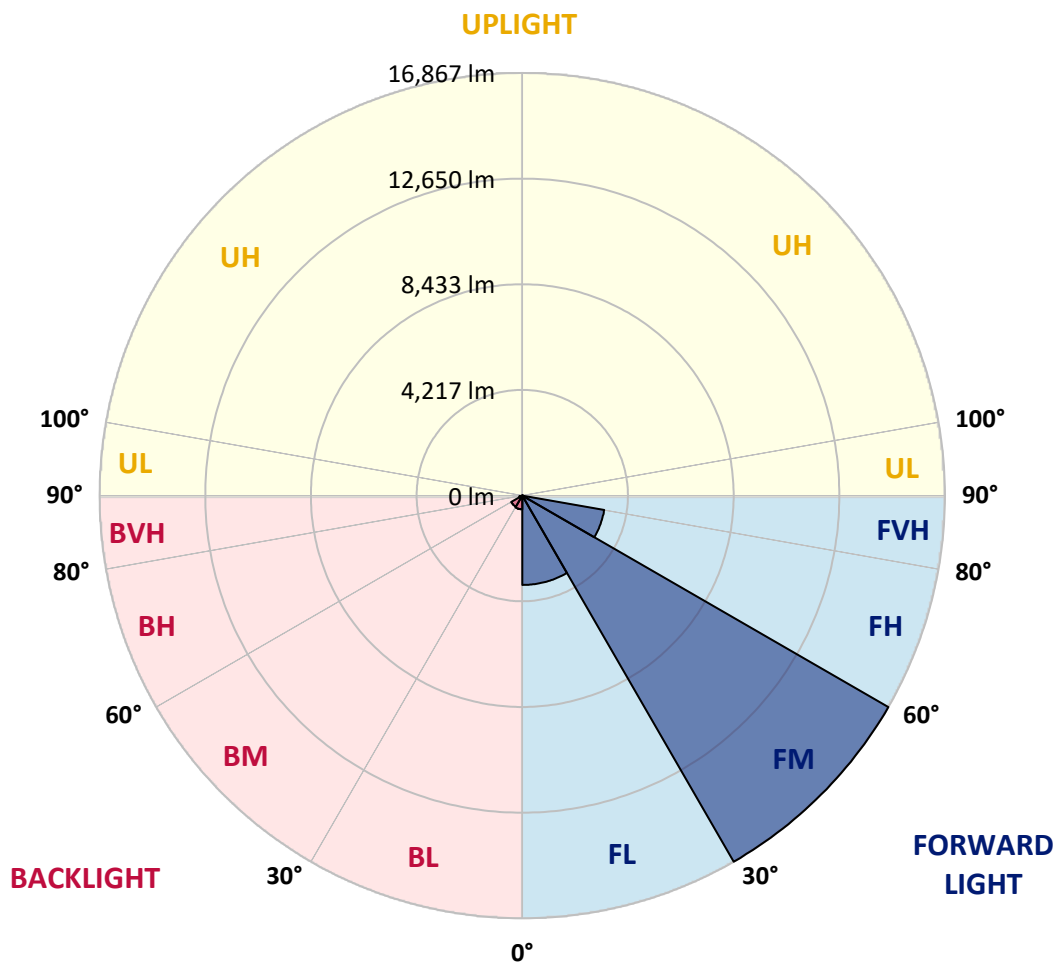
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3564.6	14.3			
FM (30°-60°)	16866.6	67.5			
FH (60°-80°)	3318.7	13.3			G2/5000
FVH (80°-90°)	39.4	0.2			G1/100
BL (0°-30°)	546.1	2.2	B2/1000		
BM (30°-60°)	511.7	2.0	B1/1000		
BH (60°-80°)	118.2	0.5	B1/500		G1/500
BVH (80°-90°)	4.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6
2.5°	7050.3	7001.5	6934.1	6881.9	6758.9	6582.0	6395.0	6395.0	6214.7	5963.7	5707.7
5°	8131.9	8099.9	8034.2	7899.4	7761.3	7513.6	7137.9	7072.2	6750.5	6295.6	5817.2
7.5°	8571.6	8586.8	8590.1	8554.8	8489.0	8244.8	7872.5	7827.0	7313.1	6703.3	5960.4
10°	8150.4	8224.6	8297.0	8443.6	8650.8	8709.7	8499.2	8452.0	7946.6	7116.0	6115.3
12.5°	7523.7	7564.2	7604.6	7835.4	8251.5	8728.3	8949.0	8947.3	8519.4	7527.1	6312.5
15°	7232.3	7267.7	7271.0	7373.8	7734.3	8428.4	9141.0	9166.3	9078.7	8034.2	6524.7
17.5°	7292.9	7321.6	7298.0	7323.3	7511.9	8098.2	9119.1	9203.3	9531.9	8521.1	6716.8
20°	7688.8	7744.4	7653.5	7582.7	7640.0	8010.6	9045.0	9162.9	9851.9	8996.1	6892.0
22.5°	8399.8	8430.1	8315.5	8121.8	8020.7	8194.2	9024.8	9141.0	10124.9	9385.3	6993.1
25°	9189.9	9179.8	9053.4	8836.1	8623.8	8564.9	9157.9	9262.3	10350.6	9735.7	7023.4
27.5°	9980.0	10010.3	9798.0	9528.5	9274.1	9120.8	9456.0	9533.5	10605.0	10135.0	7060.4
30°	10898.1	10849.3	10640.4	10332.1	10040.6	9826.7	9936.2	9958.1	10955.4	10664.0	7158.2
32.5°	12092.6	11957.8	11723.6	11184.5	10975.6	10613.4	10640.4	10667.3	11381.6	11187.9	7276.1
35°	13713.2	13706.5	13248.2	12522.1	12013.4	11563.6	11445.6	11467.5	12026.9	11966.2	7537.2
37.5°	15664.1	15691.0	15168.8	14437.6	13500.9	12786.6	12544.0	12547.4	13007.3	13041.0	7934.8
40°	17252.7	17323.5	17011.8	16518.2	15593.3	14476.4	14068.7	14031.6	14385.4	14343.3	8502.5
42.5°	17936.7	18002.4	18118.6	18290.5	17781.7	16860.2	15898.2	15948.8	16056.6	15761.8	9139.3
45°	17601.4	17705.9	18162.4	19223.8	19702.2	19392.2	18245.0	18068.1	17611.5	17303.2	9779.5
47.5°	16204.8	16459.2	17222.4	18989.6	20664.2	21712.0	20893.3	20659.1	19168.2	18428.6	10187.2
50°	13908.6	13923.8	14986.8	17246.0	20165.5	23176.0	23597.2	23422.0	20618.7	19060.3	10392.7
52.5°	10082.7	10414.6	11388.4	14004.7	18005.7	22953.6	25320.6	25248.1	22114.7	19383.8	10689.2
54°	7665.2	7729.3	8595.2	11191.3	15524.2	21732.2	25426.7	25443.6	22857.6	19579.2	10864.4
55°	6283.8	6130.5	7040.2	9533.5	13831.1	20652.4	25079.7	25160.5	23191.2	19680.3	10994.2
57.5°	2978.5	2980.2	3675.9	5028.7	8662.6	16036.4	22958.7	23245.1	23228.2	19853.8	11393.4
60°	1507.8	1517.9	1671.2	2321.5	4279.1	10660.6	18982.9	19665.1	21440.8	19879.1	11524.8
62.5°	1054.6	1042.8	1017.5	1116.9	1800.9	5417.9	14132.7	14725.7	18216.3	18917.2	11107.0
65°	903.0	877.7	807.0	791.8	909.7	2158.1	8802.4	9769.4	13908.6	16380.0	9917.6
67.5°	771.6	761.5	697.5	658.7	643.5	940.0	4541.9	5050.6	9506.6	11774.2	7511.9
70°	655.3	650.3	611.5	562.7	520.6	562.7	1684.7	2087.3	5298.3	6339.4	3544.5
72.5°	532.4	537.4	544.1	481.8	438.0	399.3	719.4	837.3	2217.0	2265.9	1239.9
75°	466.7	461.6	461.6	419.5	365.6	296.5	395.9	426.2	678.9	630.1	288.1
77.5°	328.5	316.7	370.6	345.4	304.9	210.6	225.7	239.2	281.3	240.9	134.8
80°	227.4	227.4	237.5	310.0	274.6	153.3	138.1	148.3	166.8	143.2	77.5
82.5°	128.0	131.4	155.0	165.1	160.0	102.8	91.0	92.7	111.2	97.7	48.9
85°	15.2	25.3	89.3	87.6	65.7	45.5	50.5	52.2	69.1	60.6	28.6
87.5°	1.7	3.4	18.5	23.6	16.8	18.5	18.5	18.5	23.6	27.0	20.2
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°	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6	5547.6
2.5°	5569.5	5441.5	5136.6	4782.8	4557.0	4189.8	3879.8	3655.7	3600.1	3492.3	3524.3
5°	5562.8	5296.6	4675.0	4017.9	3317.1	2794.9	2405.7	2099.1	1964.3	1875.0	1812.7
7.5°	5566.1	5150.0	4152.7	3106.5	2269.2	1757.1	1396.6	1209.6	1084.9	1032.7	1039.4
10°	5576.3	4984.9	3546.2	2301.3	1531.4	1135.5	914.8	825.5	783.4	776.6	774.9
12.5°	5599.8	4804.7	2966.7	1708.3	1071.4	825.5	741.3	710.9	697.5	697.5	692.4
15°	5625.1	4605.9	2484.9	1270.2	825.5	709.2	670.5	655.3	646.9	646.9	645.2
17.5°	5625.1	4376.8	2035.1	985.5	710.9	652.0	621.6	601.4	594.7	594.7	593.0
20°	5589.7	4110.6	1635.8	793.5	645.2	598.1	567.7	545.8	537.4	534.0	532.4
22.5°	5466.8	3755.1	1302.2	682.3	591.3	550.9	512.1	486.9	480.1	476.8	478.4
25°	5247.7	3354.2	1031.0	599.7	542.5	493.6	459.9	441.4	434.6	434.6	436.3
27.5°	5022.0	2934.7	817.1	537.4	483.5	439.7	412.7	401.0	399.3	404.3	406.0
30°	4813.1	2513.5	662.1	486.9	431.3	394.2	375.7	372.3	372.3	374.0	375.7
32.5°	4580.6	2144.6	554.3	443.1	389.2	357.1	347.0	347.0	350.4	350.4	353.8
35°	4434.0	1827.9	486.9	401.0	357.1	330.2	323.5	325.1	330.2	336.9	340.3
37.5°	4354.9	1575.2	443.1	367.3	326.8	308.3	301.6	304.9	316.7	328.5	330.2
40°	4361.6	1384.8	407.7	338.6	303.2	283.0	278.0	288.1	299.9	311.7	313.3
42.5°	4435.7	1243.3	374.0	304.9	283.0	254.4	252.7	262.8	267.9	279.7	281.3
45°	4523.3	1140.5	338.6	269.5	246.0	220.7	222.4	230.8	237.5	256.1	259.4
47.5°	4550.3	1069.8	298.2	229.1	202.2	193.7	195.4	200.5	214.0	230.8	232.5
50°	4580.6	1026.0	259.4	193.7	171.8	170.2	171.8	175.2	183.6	190.4	188.7
52.5°	4710.3	1024.3	227.4	168.5	146.6	149.9	151.6	149.9	143.2	133.1	129.7
54°	4831.6	1029.3	212.3	156.7	134.8	139.8	138.1	129.7	112.9	102.8	97.7
55°	4929.3	1034.4	203.8	148.3	128.0	129.7	131.4	114.6	92.7	82.5	79.2
57.5°	5121.4	1022.6	183.6	129.7	112.9	106.1	104.4	75.8	50.5	43.8	40.4
60°	5025.4	923.2	166.8	111.2	96.0	85.9	70.8	42.1	25.3	18.5	18.5
62.5°	4648.0	783.4	148.3	91.0	79.2	65.7	37.1	23.6	11.8	6.7	5.1
65°	4157.8	658.7	133.1	72.4	62.3	42.1	20.2	15.2	5.1	0.0	0.0
67.5°	3091.4	488.6	112.9	57.3	47.2	27.0	13.5	8.4	1.7	0.0	0.0
70°	1432.0	298.2	96.0	43.8	33.7	20.2	10.1	5.1	0.0	0.0	0.0
72.5°	411.1	187.0	79.2	32.0	23.6	16.8	8.4	3.4	1.7	0.0	0.0
75°	143.2	149.9	59.0	23.6	18.5	11.8	6.7	3.4	1.7	0.0	0.0
77.5°	85.9	121.3	37.1	20.2	15.2	10.1	6.7	3.4	1.7	1.7	0.0
80°	48.9	80.9	23.6	16.8	13.5	8.4	5.1	3.4	1.7	1.7	0.0
82.5°	27.0	38.7	18.5	15.2	11.8	8.4	5.1	3.4	1.7	1.7	1.7
85°	21.9	20.2	15.2	13.5	10.1	6.7	5.1	1.7	0.0	0.0	0.0
87.5°	16.8	13.5	13.5	13.5	10.1	6.7	5.1	1.7	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)