

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: P651512

Luminaire Tested: **GALN-SA7D-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37274.8 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

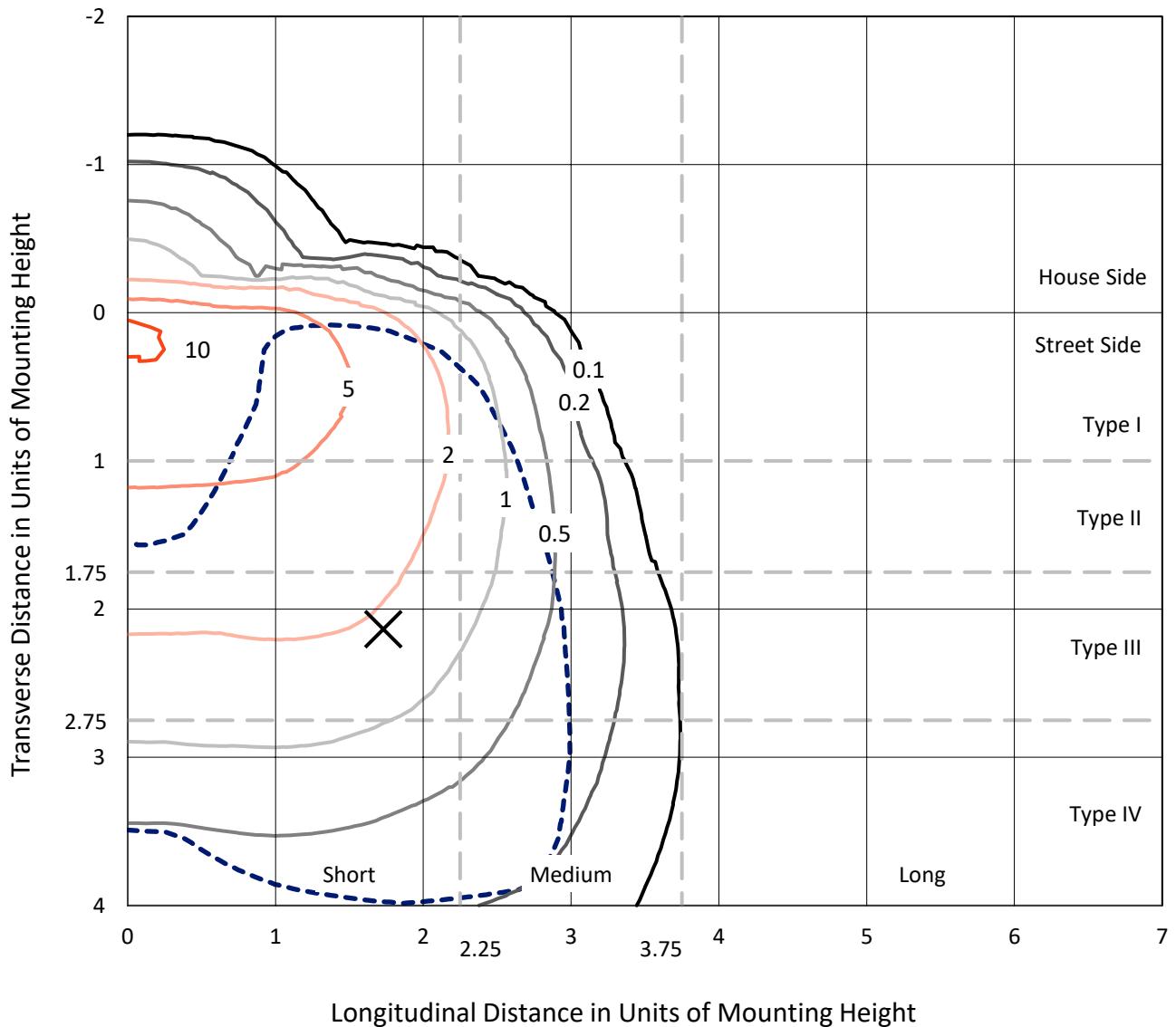
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

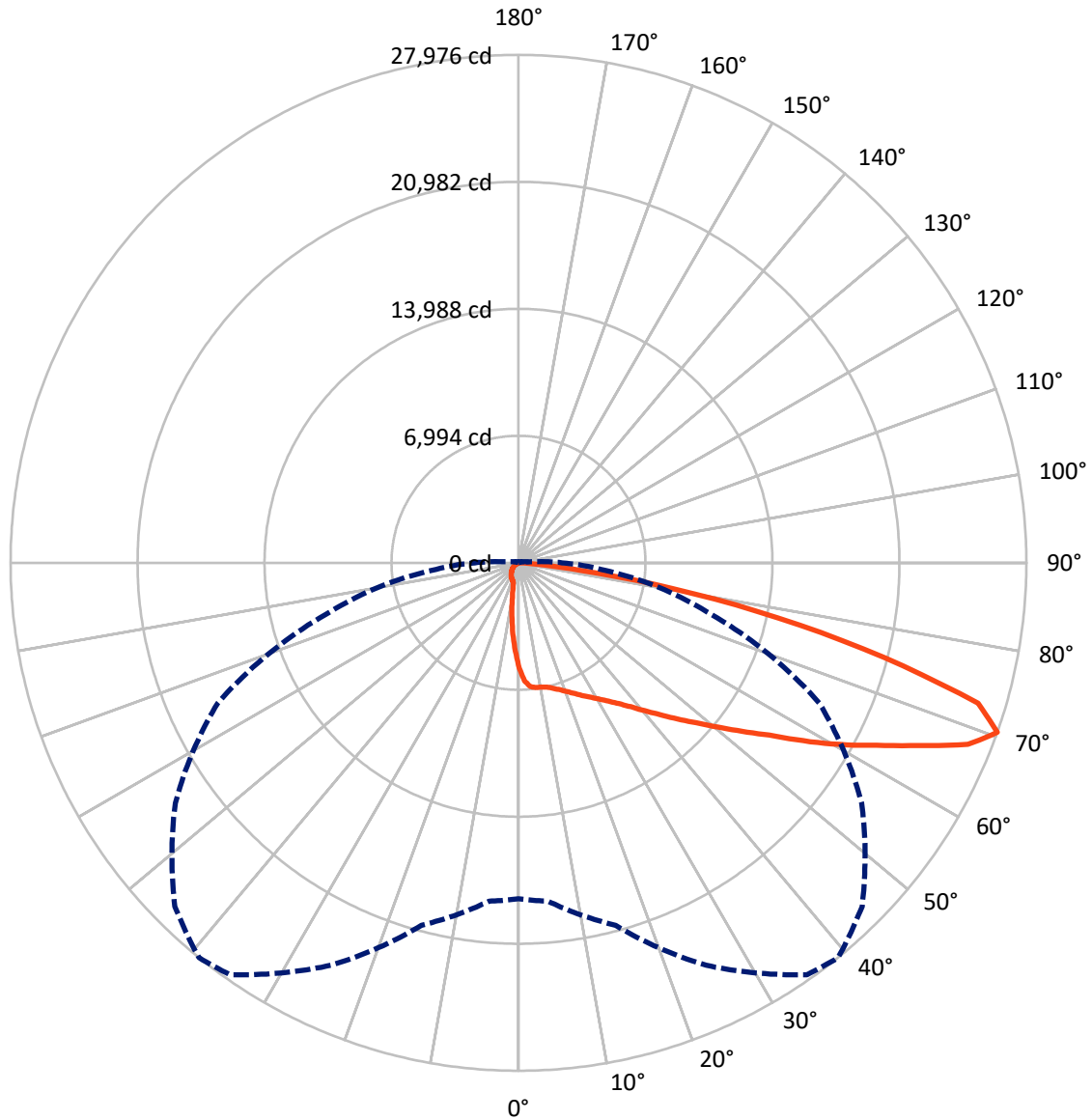
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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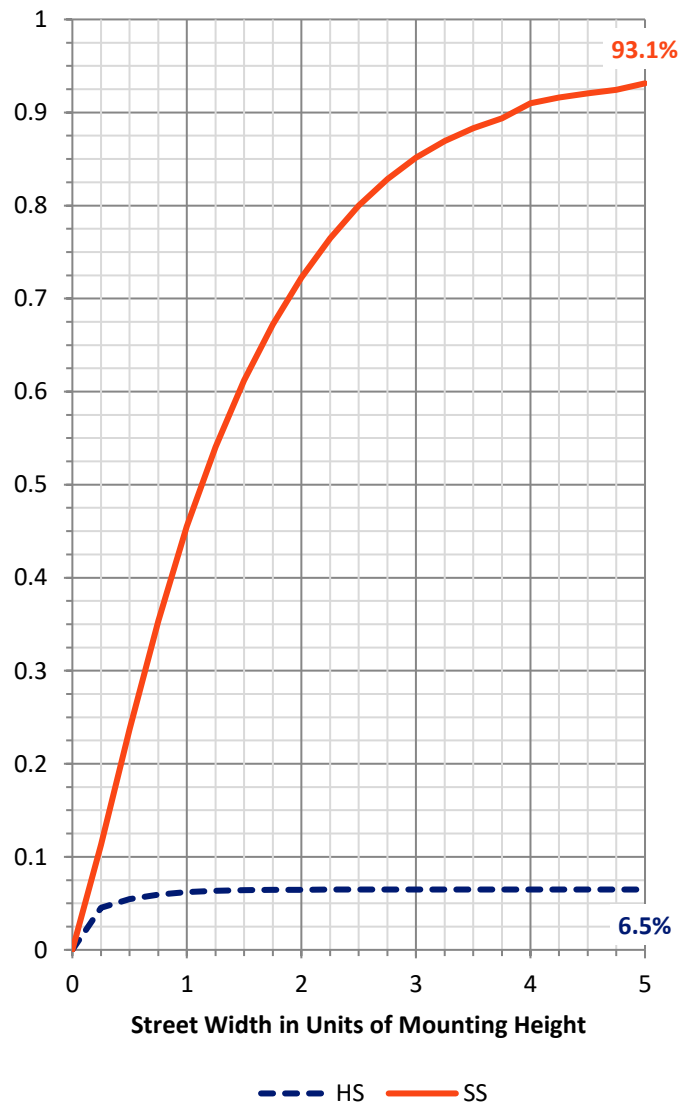
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2430.5	0.0	2430.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	34844.3	0.0	34844.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	37274.8	0.0	37274.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.1	1.3
10°-20°	1289.2	3.5
20°-30°	2159.7	5.8
30°-40°	3349.4	9.0
40°-50°	5307.8	14.2
50°-60°	7780.5	20.9
60°-70°	9972.7	26.8
70°-80°	6266.5	16.8
80°-90°	652.8	1.8
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°	37274.8	100.0
0°-180°	37274.8	100.0

Coefficient of Utilization

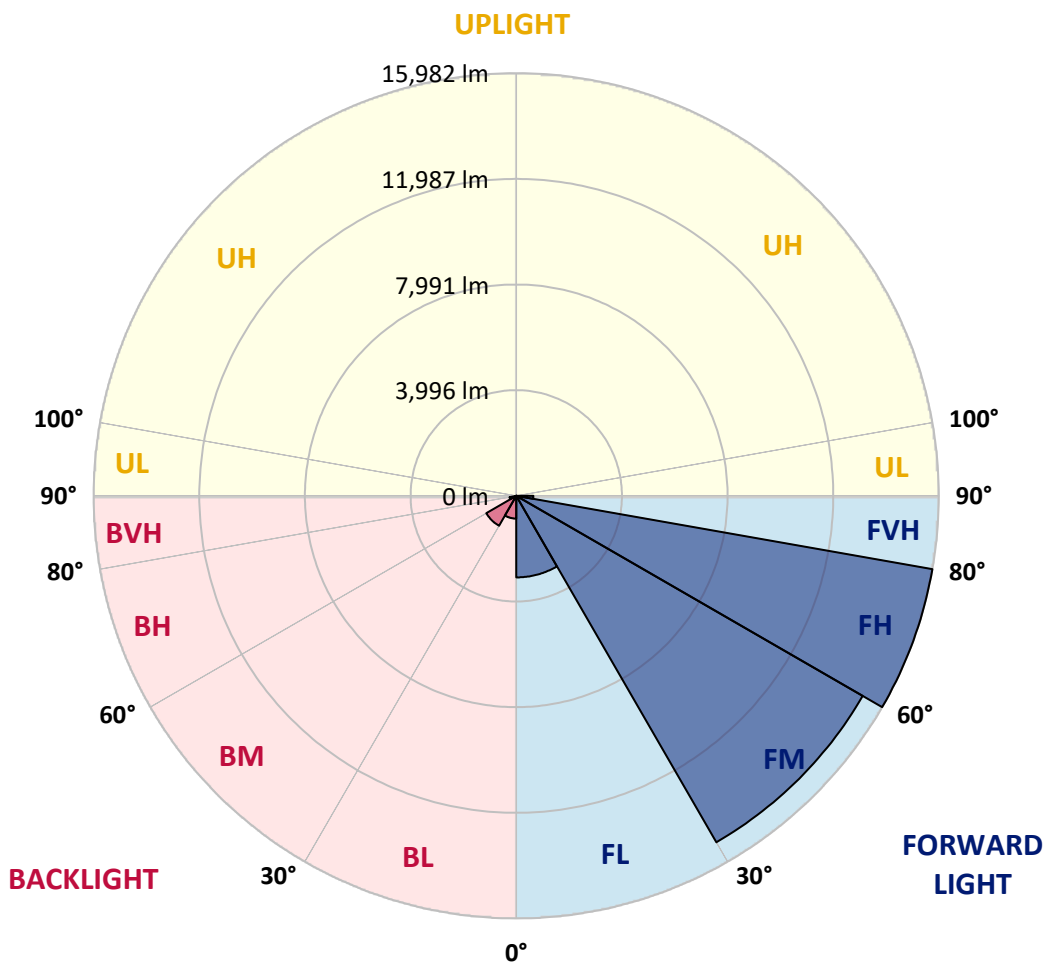


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3084.3	8.3			
FM (30°-60°)	15129.8	40.6			
FH (60°-80°)	15982.2	42.9			G5
FVH (80°-90°)	648.0	1.7			G4/750
BL (0°-30°)	860.6	2.3	B2/1000		
BM (30°-60°)	1308.0	3.5	B2/2500		
BH (60°-80°)	257.0	0.7	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2
2.5°	6720.3	6697.8	6667.8	6632.7	6532.6	6515.0	6454.8	6327.1	6174.4	6049.1	5876.2
5°	7038.5	7051.0	7028.5	6965.8	6893.2	6850.6	6775.5	6577.6	6379.7	6126.8	5843.7
7.5°	7111.2	7136.1	7108.6	7048.5	6978.4	6933.3	6873.2	6702.9	6472.4	6184.4	5796.1
10°	7103.6	7133.7	7116.1	7061.0	7003.4	6960.9	6895.7	6760.5	6575.1	6272.0	5811.1
12.5°	7091.1	7131.2	7128.7	7101.2	7053.6	7020.9	6980.9	6860.6	6687.8	6399.8	5893.8
15°	7056.0	7106.1	7151.2	7173.7	7176.3	7176.3	7126.1	6998.4	6833.1	6567.6	6001.5
17.5°	7071.0	7128.7	7241.3	7306.5	7351.6	7346.6	7294.0	7156.2	6973.4	6740.4	6114.2
20°	7163.7	7241.3	7399.2	7529.5	7574.6	7559.5	7489.4	7329.1	7121.2	6888.2	6224.4
22.5°	7391.6	7461.8	7659.7	7812.5	7845.0	7805.0	7704.7	7486.8	7299.0	7048.5	6357.2
25°	7732.3	7815.0	7997.8	8113.0	8113.0	8090.5	7950.2	7694.7	7499.4	7271.5	6530.0
27.5°	8145.6	8215.7	8396.1	8498.8	8438.7	8373.6	8233.3	7925.2	7737.4	7552.0	6737.9
30°	8563.9	8609.0	8799.4	8844.5	8781.8	8699.1	8548.8	8240.8	8075.5	7932.7	7038.5
32.5°	8959.7	9057.4	9215.2	9205.2	9120.0	9079.9	8942.1	8614.0	8521.3	8506.3	7459.3
35°	9355.5	9430.6	9570.8	9605.9	9530.8	9523.2	9423.1	9180.1	9182.6	9280.3	8115.6
37.5°	9696.1	9763.7	9929.0	10006.6	10021.7	10059.3	10019.2	9858.9	10086.9	10354.8	8984.7
40°	9981.7	10076.8	10287.2	10422.5	10577.8	10715.5	10723.1	10758.2	11216.5	11677.4	10119.4
42.5°	10204.5	10337.3	10642.9	10893.4	11249.0	11424.4	11564.7	11757.5	12529.0	13217.8	11456.9
45°	10495.1	10647.9	11028.6	11421.9	11977.9	12266.0	12461.3	12977.4	14071.9	15011.3	12829.6
47.5°	10976.1	11056.2	11444.4	12018.1	12749.5	13160.2	13540.9	14322.5	15727.6	16569.3	13971.8
50°	11594.7	11647.3	11940.3	12736.9	13683.7	14224.8	14918.6	15837.9	17446.0	17861.7	14618.0
52.5°	12278.5	12296.1	12516.5	13528.4	14730.7	15412.1	16188.5	17323.2	18846.1	18783.5	15046.3
55°	13072.6	13047.5	13235.4	14387.6	15970.6	16749.6	17653.9	18843.6	20061.0	19437.3	15291.8
57.5°	13981.8	13914.2	14097.0	15527.3	17558.7	18490.5	19409.7	20156.2	21002.7	19985.8	15409.6
60°	14933.6	14798.4	15016.3	16807.2	19429.7	20313.9	21077.9	21278.3	21994.7	20421.7	15206.6
62.5°	15692.6	15695.1	16100.9	18169.8	21353.4	22127.4	22533.2	22713.6	22848.8	20326.5	14139.6
65°	16877.4	16917.4	17566.1	20061.0	23580.2	24251.5	24529.5	23943.4	22886.4	19144.2	12536.5
67.5°	18099.7	18227.4	19414.7	22666.0	26152.7	26693.7	26335.5	24181.4	21864.4	16446.5	9505.7
70°	18498.0	18708.4	20664.6	24459.4	27695.6	27976.1	26763.8	23071.7	18277.5	10996.1	4784.2
72.5°	16950.0	17290.6	19945.7	23805.6	26711.2	26468.2	23945.9	19349.6	11619.8	4175.5	1460.3
75°	11952.9	12103.2	16576.8	19747.9	21483.7	20794.8	18214.9	12473.9	4779.2	1172.3	501.0
77.5°	6171.8	6099.2	9858.9	13102.6	15321.8	14608.0	11927.9	6457.4	1811.0	488.5	310.6
80°	3191.1	3243.7	4265.6	6865.7	9352.9	8606.5	6359.7	2993.2	964.4	270.5	237.9
82.5°	1788.4	1678.2	2452.2	2998.2	4373.4	3429.1	2439.7	2119.1	420.8	162.8	225.5
85°	325.6	340.7	1345.1	1620.6	1517.9	964.4	786.5	1415.2	122.7	90.2	157.8
87.5°	5.0	5.0	260.5	465.9	295.5	135.2	248.0	202.8	25.1	35.1	27.6
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°	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2	5816.2
2.5°	5788.6	5693.4	5515.5	5340.3	5117.3	4934.5	4811.7	4683.9	4553.8	4563.8	4593.8
5°	5688.4	5523.1	5172.4	4801.7	4446.0	4125.4	3809.8	3526.7	3411.5	3306.3	3311.4
7.5°	5588.2	5355.2	4841.8	4260.7	3722.1	3176.1	2780.3	2454.7	2281.9	2151.6	2114.0
10°	5543.1	5235.1	4538.7	3739.7	2975.7	2379.5	1871.1	1605.6	1400.2	1335.1	1352.6
12.5°	5563.1	5174.9	4265.6	3268.8	2359.5	1658.2	1302.5	1167.2	1122.1	1114.7	1109.6
15°	5600.7	5132.4	3997.7	2747.8	1733.3	1232.4	1094.6	1069.6	1064.5	1059.5	1062.0
17.5°	5650.8	5094.8	3712.1	2259.3	1330.0	1077.1	1037.0	1024.4	1022.0	1022.0	1022.0
20°	5700.9	5052.2	3394.0	1823.5	1109.6	1016.9	991.9	984.4	981.9	981.9	979.3
22.5°	5758.5	5014.6	3070.9	1432.7	1022.0	974.4	951.8	946.8	944.3	941.8	941.8
25°	5841.2	4967.0	2727.7	1172.3	966.8	934.3	911.7	906.8	904.2	894.2	896.8
27.5°	5951.4	4932.0	2374.6	1012.0	916.8	884.2	869.2	861.7	856.6	849.2	851.6
30°	6101.7	4901.9	1998.8	924.3	859.2	831.6	816.5	811.6	806.5	799.0	799.0
32.5°	6362.2	4914.4	1603.1	854.1	806.5	774.0	758.9	754.0	748.9	741.4	741.4
35°	6753.0	4987.0	1282.4	794.0	743.9	711.4	696.3	696.3	688.8	678.8	676.3
37.5°	7391.6	5172.4	1029.5	736.4	683.8	653.8	636.2	631.2	623.7	608.6	606.2
40°	8145.6	5460.4	866.7	678.8	628.7	598.6	583.7	568.6	548.6	533.5	531.0
42.5°	9092.4	5756.1	751.4	621.2	576.1	548.6	531.0	505.9	475.9	455.9	453.4
45°	10079.3	6026.5	673.8	568.6	526.0	503.5	483.4	443.4	405.8	380.7	378.2
47.5°	10815.8	6076.6	611.2	518.5	483.4	460.9	433.4	383.2	333.1	310.6	303.1
50°	11163.9	5833.7	546.1	468.4	440.9	415.8	380.7	323.1	268.0	240.4	235.5
52.5°	11286.6	5412.8	493.4	423.3	398.3	368.2	325.6	260.5	210.4	182.8	180.3
55°	11236.5	4881.8	445.8	380.7	348.2	313.1	270.5	207.9	155.3	132.8	127.7
57.5°	10973.5	4205.6	398.3	338.2	298.1	263.0	215.4	155.3	105.2	85.2	82.7
60°	10264.7	3283.8	350.7	290.6	253.0	215.4	170.3	110.2	65.1	47.6	47.6
62.5°	9067.4	2437.1	305.6	243.0	212.9	172.8	120.3	70.1	35.1	25.1	22.5
65°	7577.0	1798.5	255.5	205.4	177.9	135.2	85.2	42.6	17.5	7.5	5.0
67.5°	5287.6	1109.6	212.9	167.9	145.2	97.7	52.6	17.5	7.5	0.0	0.0
70°	2402.1	528.5	162.8	127.7	110.2	70.1	27.6	10.0	5.0	0.0	0.0
72.5°	746.5	278.0	115.2	92.7	75.2	45.1	15.1	7.5	5.0	0.0	0.0
75°	345.7	177.9	72.7	50.1	42.6	22.5	10.0	5.0	2.5	0.0	0.0
77.5°	258.0	137.8	42.6	27.6	22.5	15.1	7.5	5.0	2.5	0.0	0.0
80°	225.5	70.1	25.1	17.5	12.5	10.0	5.0	2.5	0.0	0.0	0.0
82.5°	202.8	35.1	15.1	10.0	7.5	5.0	2.5	2.5	0.0	0.0	0.0
85°	110.2	20.0	10.0	7.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	20.0	10.0	7.5	5.0	5.0	2.5	2.5	2.5	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)