

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: P651588

Luminaire Tested: **GALN-SA8D-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38570.8 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

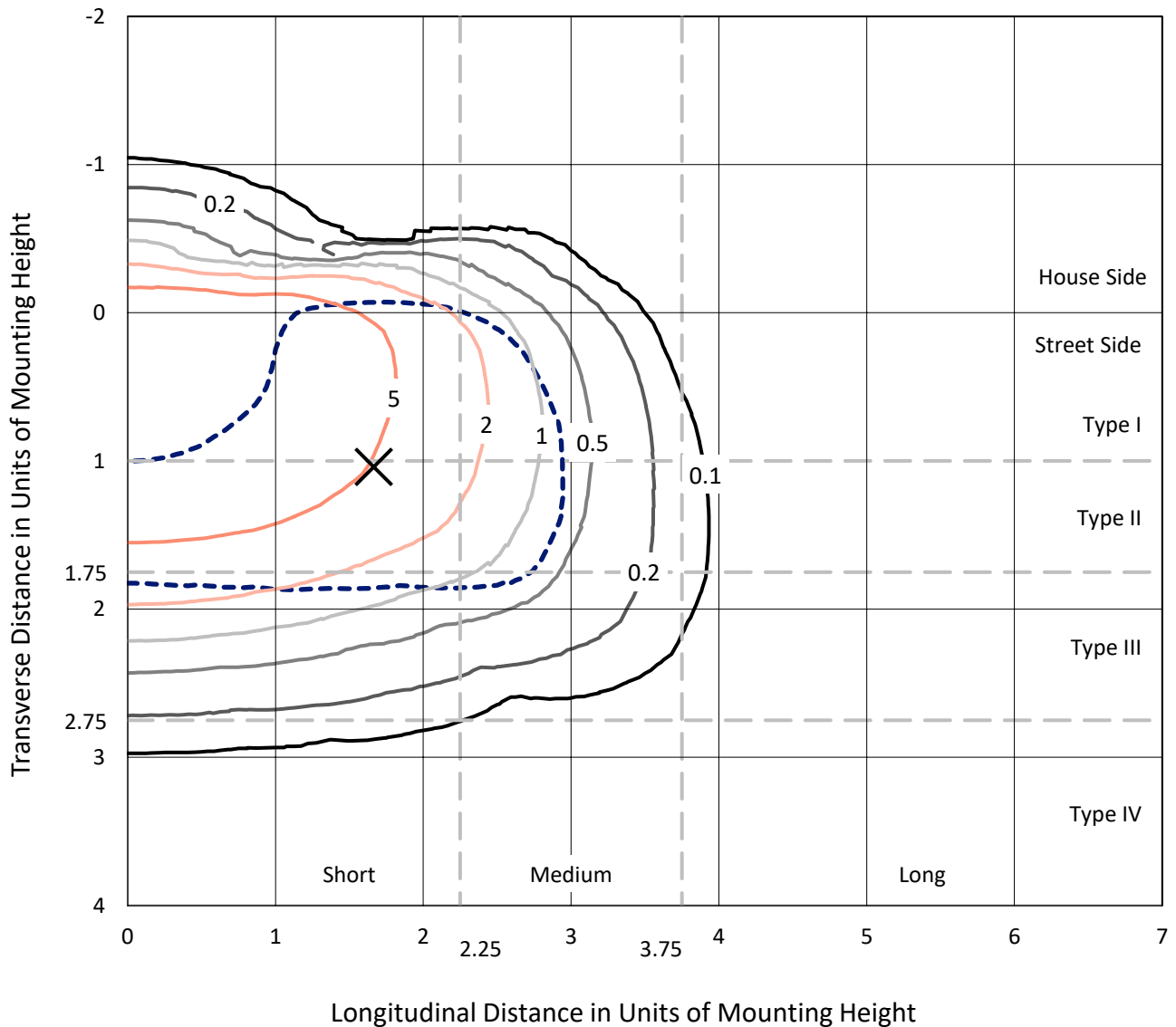
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

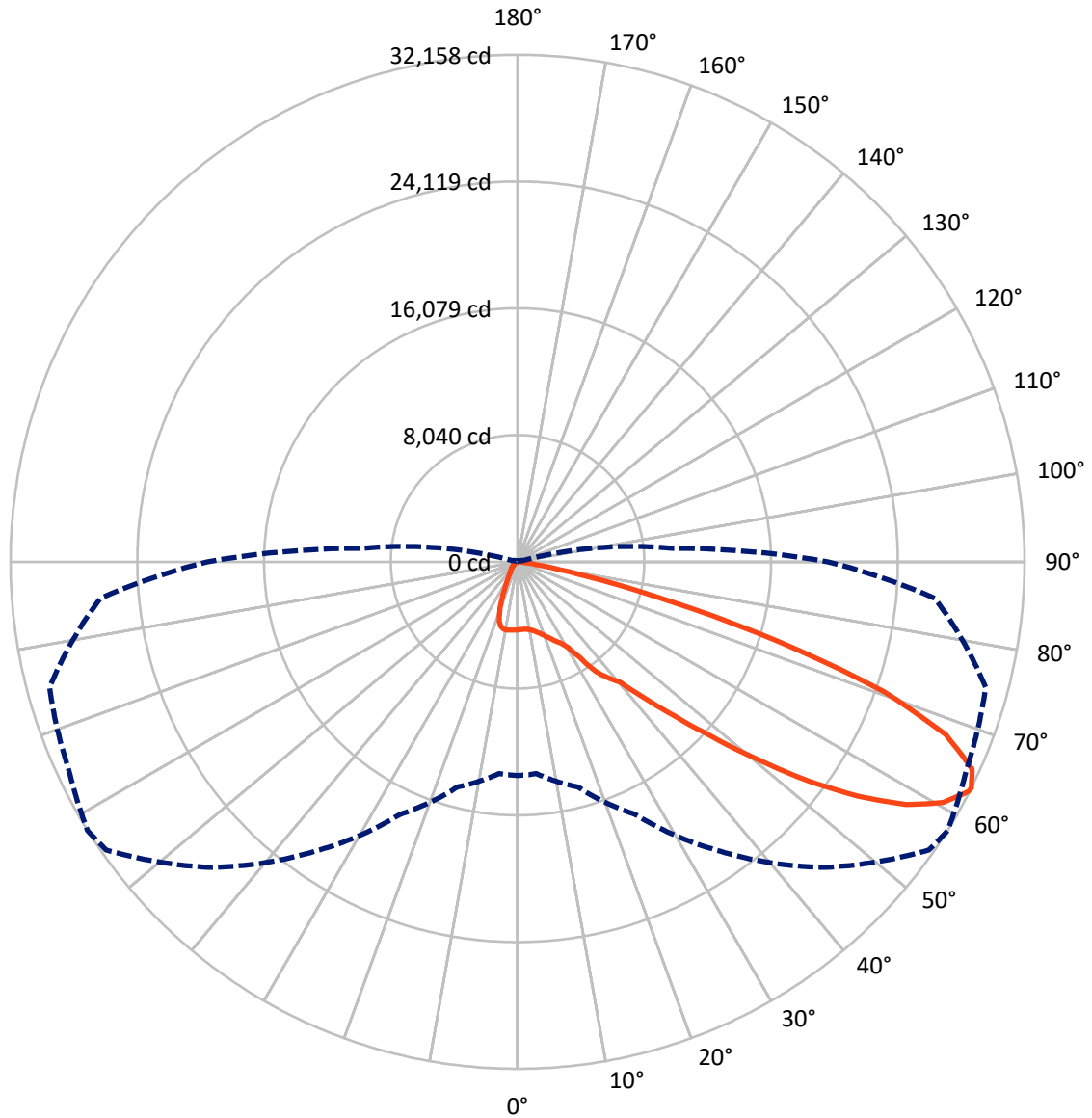
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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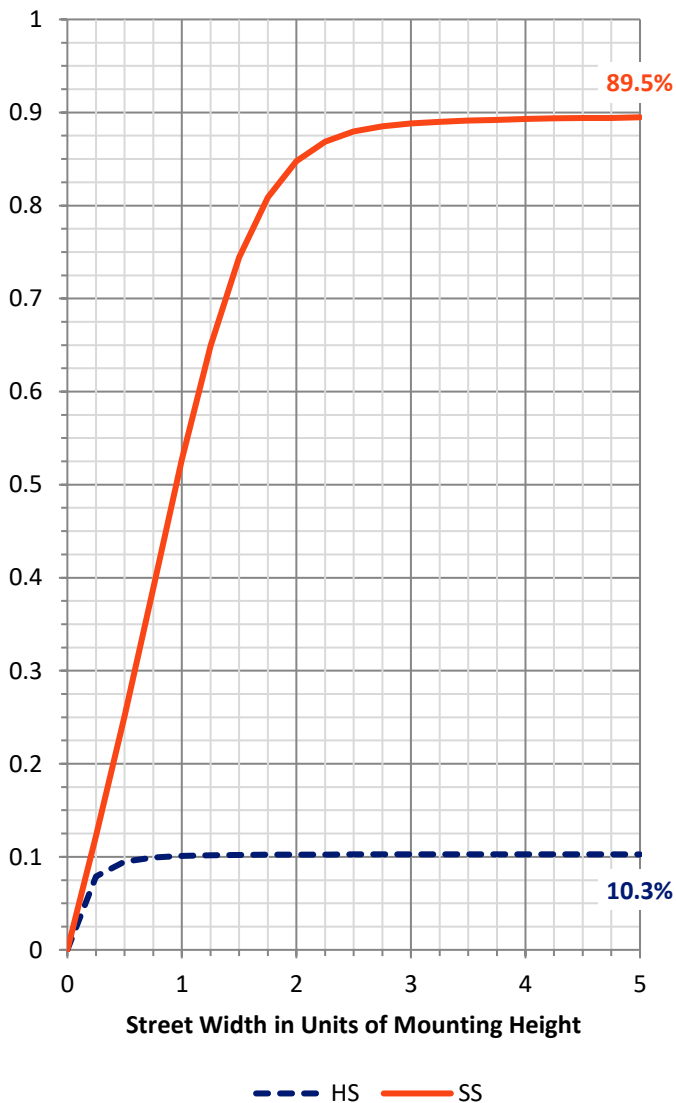
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3993.7	0.0	3993.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	34577.0	0.0	34577.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	38570.8	0.0	38570.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	1.0
10°-20°	1101.0	2.9
20°-30°	1910.8	5.0
30°-40°	3511.4	9.1
40°-50°	6610.1	17.1
50°-60°	11306.0	29.3
60°-70°	10825.5	28.1
70°-80°	2760.5	7.2
80°-90°	141.2	0.4
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°	38570.8	100.0
0°-180°	38570.8	100.0

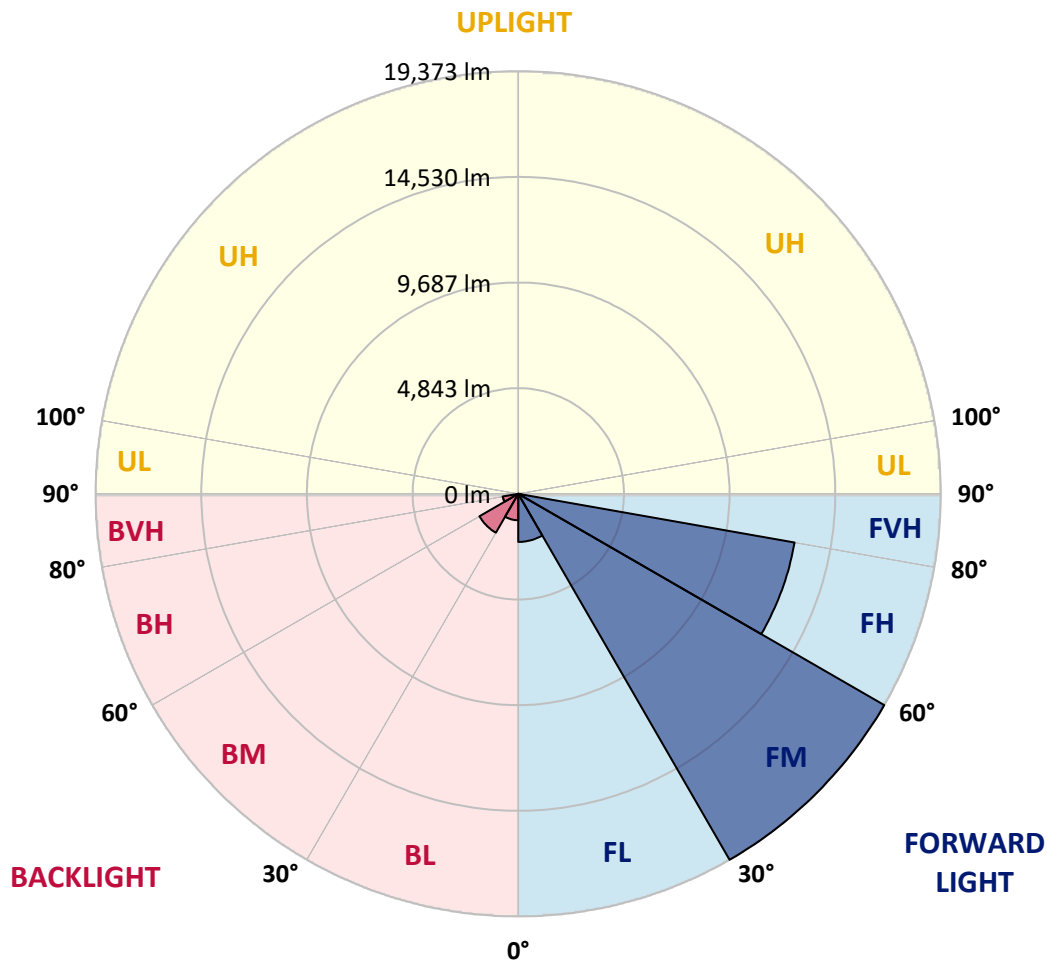


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.9	5.7			
FM (30°-60°)	19373.3	50.2			
FH (60°-80°)	12863.1	33.3			G5
FVH (80°-90°)	135.7	0.4			G2/225
BL (0°-30°)	1211.2	3.1	B3/2500		
BM (30°-60°)	2054.1	5.3	B2/2500		
BH (60°-80°)	722.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1
2.5°	4210.7	4225.2	4239.7	4245.5	4265.9	4286.2	4300.7	4297.8	4321.1	4332.7	4332.7
5°	4042.3	4042.3	4080.0	4114.8	4173.0	4231.1	4286.2	4297.8	4341.4	4382.0	4396.6
7.5°	3900.0	3908.7	3937.7	4001.6	4080.0	4181.7	4292.0	4318.1	4393.6	4483.7	4521.4
10°	3833.2	3839.0	3876.8	3943.5	4042.3	4181.7	4335.6	4385.0	4501.1	4643.4	4695.6
12.5°	3818.6	3827.4	3865.2	3940.7	4053.9	4222.3	4431.4	4483.7	4652.1	4835.1	4913.5
15°	3844.8	3850.6	3888.4	3969.7	4094.6	4294.9	4559.1	4631.8	4832.1	5044.1	5145.7
17.5°	3937.7	3931.9	3958.1	4024.9	4164.2	4385.0	4713.0	4800.2	5035.4	5325.8	5392.6
20°	4332.7	4294.9	4271.7	4213.6	4268.7	4512.7	4898.9	5026.7	5317.1	5613.3	5659.8
22.5°	5183.5	5099.3	4933.8	4707.2	4533.1	4687.0	5122.5	5270.6	5645.2	5935.6	5935.6
25°	6266.7	6159.2	5993.7	5500.1	5073.2	4974.4	5375.2	5561.0	6002.5	6295.7	6199.9
27.5°	7622.8	7538.6	7216.3	6641.3	5987.9	5476.8	5668.5	5839.8	6318.9	6673.3	6472.8
30°	8726.3	8685.7	8421.4	7907.4	7187.3	6440.9	6214.4	6327.7	6740.0	7149.5	6943.3
32.5°	9658.5	9658.5	9388.4	8909.3	8235.6	7573.5	7140.8	7222.1	7617.0	8090.3	7707.0
35°	10683.6	10648.7	10430.9	9975.0	9220.0	8636.3	8459.2	8569.5	8926.7	9278.1	8334.3
37.5°	11761.0	11749.3	11522.8	11081.4	10465.7	9731.0	9315.8	9344.9	9527.8	9742.7	9069.0
40°	12931.2	12948.6	12652.4	12379.4	11798.6	11046.5	10250.9	10067.9	10239.3	10846.2	10425.1
42.5°	14313.5	14272.9	14145.0	13773.4	13305.8	12855.7	11900.3	11833.5	11984.5	12635.0	12179.1
45°	15919.4	15977.4	15756.7	15550.6	15236.9	14862.3	14063.7	13947.6	14113.1	15123.7	14476.1
47.5°	17528.1	17473.0	17615.2	17577.5	17745.9	17467.1	16761.5	16523.4	16921.3	17879.5	16927.1
50°	18753.6	18814.6	19110.8	19543.5	20266.6	20423.3	19746.8	19665.4	19842.6	20458.2	19119.5
52.5°	19549.3	19752.6	20217.2	21329.4	22633.2	23646.7	23132.7	23089.2	23016.6	23182.1	21216.2
55°	20069.1	20275.2	20882.2	22520.0	24764.8	26411.3	26437.4	26251.6	25772.4	25653.4	23176.3
57.5°	19749.6	19790.3	20655.7	22845.3	25946.6	28383.1	29236.8	29050.9	28165.3	27715.2	24907.1
60°	17751.7	17835.9	19041.1	21614.0	25432.7	29027.7	31092.4	31008.2	30038.2	29530.1	26254.4
62.5°	14211.8	14455.8	15695.8	18564.8	23042.7	27941.6	31844.5	32082.6	31327.7	30627.8	26678.5
63°	13561.4	13483.0	14792.6	17676.2	22409.6	27404.4	31856.2	32158.2	31385.7	30732.3	26562.3
65°	10038.9	10274.1	11125.0	13938.9	18649.1	24904.1	31138.9	31673.2	31170.8	30270.6	25275.8
67.5°	5636.6	5624.9	6565.8	9121.2	13053.2	19534.7	28156.5	29286.1	29181.6	27163.4	20951.9
70°	2758.7	2802.3	3188.5	4727.6	7570.5	13477.2	23397.0	24616.7	24654.4	21335.2	14487.7
72.5°	1248.7	1269.0	1544.9	2302.8	3891.3	7175.6	16122.6	17287.1	17072.2	13596.2	8000.3
75°	659.2	702.7	850.8	1158.6	1875.9	2959.1	8769.9	9896.6	9446.5	6211.5	2944.6
77.5°	487.9	502.4	577.9	737.6	1004.7	1152.8	3783.8	4501.1	4216.5	2247.7	975.7
80°	357.2	368.8	429.8	522.7	633.0	586.6	1425.8	1634.9	1466.5	763.7	299.1
82.5°	217.8	220.7	313.6	389.1	397.9	328.2	470.5	505.3	528.5	429.8	162.6
85°	78.4	98.7	212.0	281.7	235.2	165.5	197.5	217.8	238.1	273.0	95.8
87.5°	8.7	11.6	101.7	136.5	66.8	61.0	72.6	81.3	87.1	101.7	46.4
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°	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1	4318.1
2.5°	4344.3	4355.9	4347.2	4332.7	4329.8	4321.1	4303.6	4303.6	4303.6	4309.5	4303.6
5°	4408.2	4416.8	4396.6	4367.5	4335.6	4294.9	4251.3	4225.2	4222.3	4216.5	4202.0
7.5°	4530.1	4541.7	4495.3	4425.6	4338.5	4239.7	4146.8	4059.7	4019.1	3987.1	3987.1
10°	4707.2	4718.9	4626.0	4501.1	4326.9	4126.5	3905.8	3705.4	3548.6	3476.0	3458.6
12.5°	4919.3	4925.1	4771.2	4553.3	4265.9	3879.6	3409.2	2970.7	2665.8	2526.4	2511.9
15°	5151.5	5110.9	4907.7	4573.7	4091.6	3371.5	2558.4	2021.2	1704.6	1611.7	1646.5
17.5°	5386.8	5311.3	5012.2	4541.7	3699.6	2558.4	1719.1	1379.4	1280.7	1254.5	1254.5
20°	5607.5	5502.9	5087.7	4402.4	3020.1	1762.7	1274.8	1193.5	1176.1	1158.6	1161.6
22.5°	5828.2	5668.5	5154.5	4091.6	2250.5	1260.3	1141.2	1115.1	1091.9	1068.7	1065.7
25°	6043.1	5822.4	5180.6	3516.6	1533.3	1083.2	1042.5	1007.7	961.2	935.1	929.2
27.5°	6266.7	6008.3	5163.2	2790.7	1118.0	969.9	929.2	879.9	824.7	778.3	778.3
30°	6696.5	6362.5	5102.2	2006.6	940.9	853.8	801.5	723.1	662.1	615.6	612.8
32.5°	7283.1	6824.2	4893.1	1411.3	836.4	752.1	673.7	586.6	522.7	487.9	487.9
35°	7805.7	7288.9	4501.1	1039.6	752.1	653.4	557.6	473.3	423.9	400.7	392.0
37.5°	8601.4	7968.4	3960.9	845.0	670.8	566.2	467.5	389.1	348.5	331.0	331.0
40°	9795.0	8798.9	3298.9	740.5	592.4	482.1	389.1	328.2	296.2	275.8	275.8
42.5°	11276.0	9815.3	2628.0	665.0	519.8	415.3	325.2	278.8	249.8	235.2	232.3
45°	13140.3	10886.8	2024.0	595.3	461.7	354.3	275.8	235.2	206.2	197.5	200.4
47.5°	15085.9	11830.6	1568.1	534.3	400.7	299.1	235.2	203.3	182.9	171.3	171.3
50°	16747.0	12481.1	1190.6	464.7	354.3	252.6	206.2	182.9	165.5	159.7	156.8
52.5°	18135.1	12669.8	911.8	403.7	310.7	217.8	182.9	165.5	151.0	142.3	142.3
55°	19316.9	12504.3	714.3	339.8	261.4	188.7	162.6	148.1	130.7	121.9	119.1
57.5°	20008.1	11972.9	546.0	281.7	212.0	156.8	142.3	124.9	104.5	90.0	90.0
60°	20356.6	11200.4	418.1	232.3	162.6	124.9	116.1	92.9	72.6	61.0	58.1
62.5°	19938.4	10175.3	316.6	182.9	121.9	92.9	78.4	66.8	46.4	34.8	34.8
63°	19680.0	9879.1	304.9	174.3	113.3	87.1	72.6	61.0	40.6	32.0	29.0
65°	17940.5	8586.9	249.8	139.4	90.0	61.0	49.4	43.6	29.0	14.5	11.6
67.5°	14246.7	6568.7	197.5	104.5	63.9	43.6	29.0	26.2	8.7	0.0	0.0
70°	9632.3	4242.7	153.9	75.5	43.6	26.2	14.5	11.6	2.9	0.0	0.0
72.5°	5023.8	2175.1	119.1	55.2	26.2	17.4	8.7	2.9	0.0	0.0	0.0
75°	1777.2	740.5	87.1	34.8	17.4	8.7	2.9	0.0	0.0	0.0	0.0
77.5°	537.2	275.8	55.2	26.2	11.6	5.8	0.0	0.0	0.0	0.0	0.0
80°	188.7	101.7	32.0	17.4	8.7	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	92.9	49.4	20.4	14.5	8.7	2.9	0.0	0.0	0.0	0.0	0.0
85°	52.3	32.0	17.4	14.5	8.7	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	37.8	23.2	17.4	14.5	11.6	5.8	2.9	0.0	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)