

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: P651580

Luminaire Tested: **GALN-SA8D-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651580
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-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 39273 lumens
Efficiency: N/A
Efficacy: 79.7 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

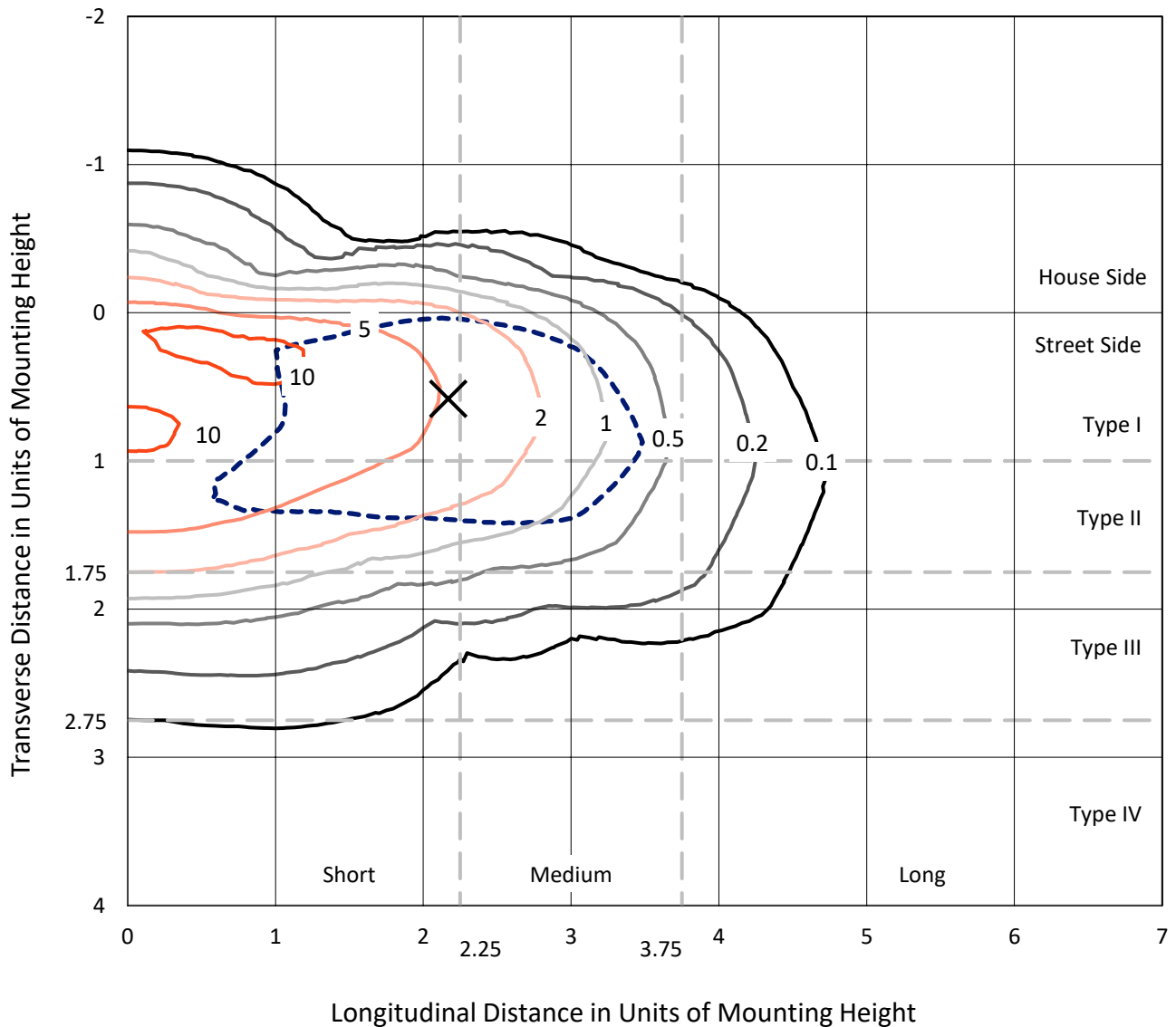
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

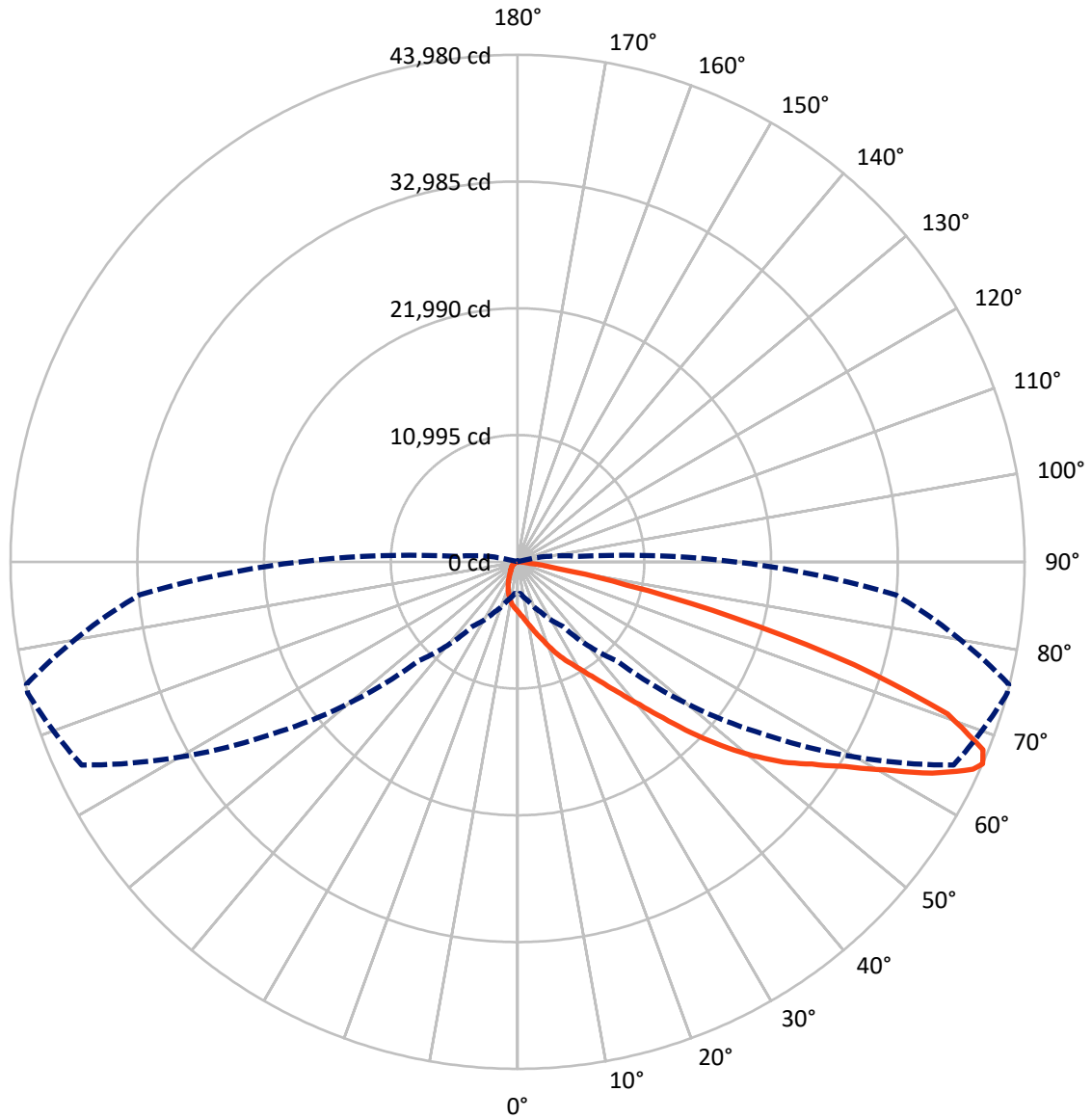
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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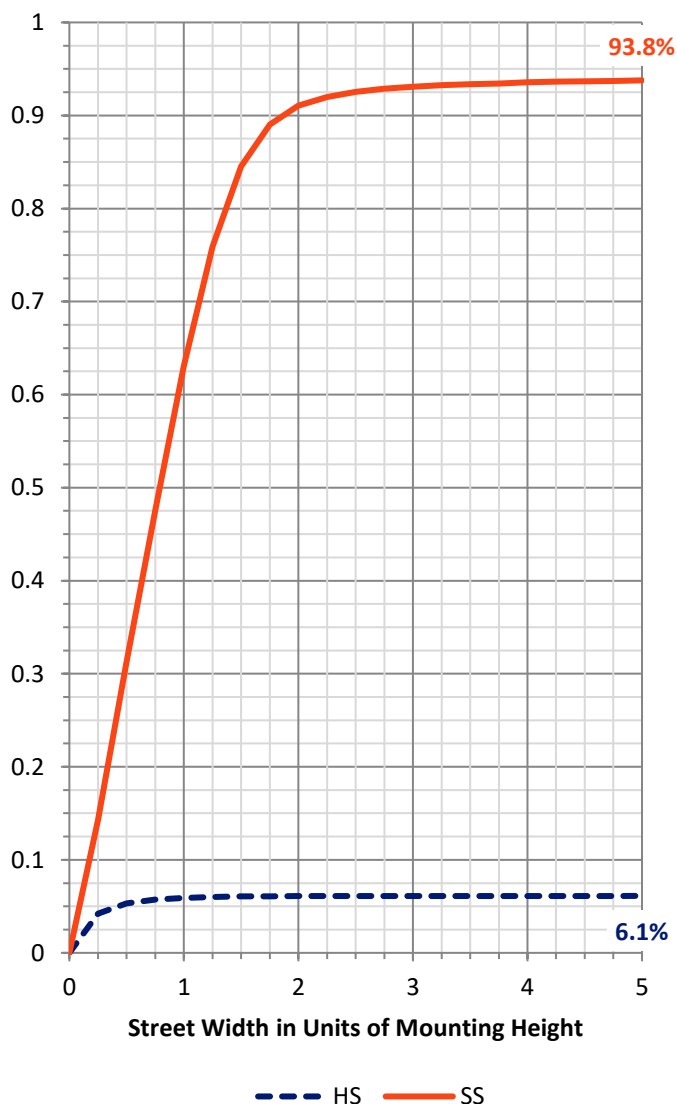
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.5	0.0	2424.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	36848.5	0.0	36848.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	39273.0	0.0	39273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	1.1
10°-20°	1219.2	3.1
20°-30°	2105.2	5.4
30°-40°	3797.4	9.7
40°-50°	6860.0	17.5
50°-60°	10694.9	27.2
60°-70°	10159.7	25.9
70°-80°	3807.6	9.7
80°-90°	214.8	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°	39273.0	100.0
0°-180°	39273.0	100.0

Coefficient of Utilization

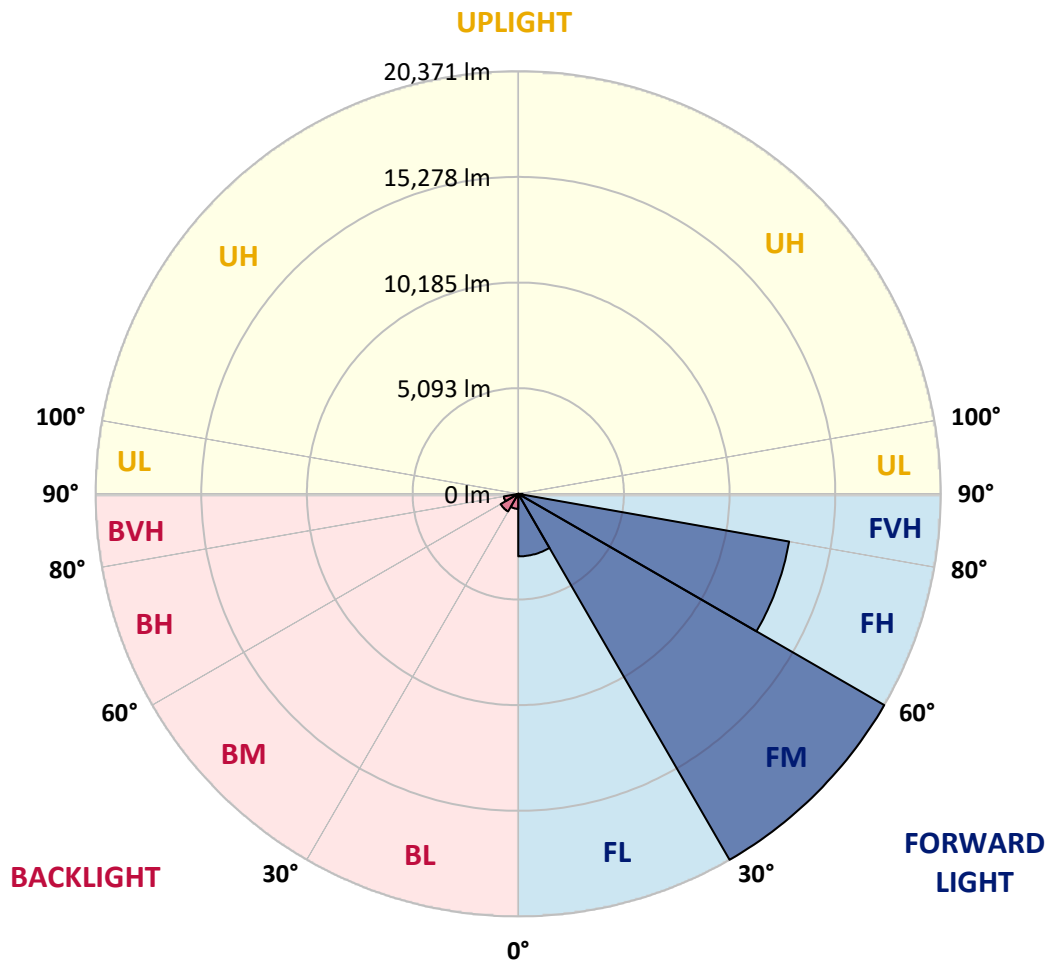


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3014.5	7.7			
FM (30°-60°)	20370.9	51.9			
FH (60°-80°)	13259.3	33.8			G5
FVH (80°-90°)	203.7	0.5			G2/225
BL (0°-30°)	724.1	1.8	B2/1000		
BM (30°-60°)	981.4	2.5	B1/1000		
BH (60°-80°)	708.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	11.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9
2.5°	5131.2	5067.4	5087.6	5058.6	4991.8	4893.1	4806.0	4681.1	4556.3	4535.9	4396.5
5°	5807.9	5790.4	5767.2	5683.0	5636.5	5485.5	5305.4	5090.6	4832.1	4785.6	4533.0
7.5°	6269.6	6260.8	6272.4	6228.9	6188.2	6051.8	5860.1	5566.8	5166.1	5139.9	4718.9
10°	6420.5	6443.8	6487.4	6557.0	6620.9	6577.4	6432.1	6066.3	5598.8	5523.3	4930.9
12.5°	6333.4	6359.6	6464.1	6650.0	6856.2	6975.2	6917.1	6650.0	6057.6	5996.6	5169.0
15°	6109.9	6141.8	6289.9	6577.4	6946.2	7283.1	7428.2	7236.6	6591.9	6493.2	5456.5
17.5°	5778.8	5825.3	6037.2	6417.7	6922.9	7503.7	7913.1	7849.3	7161.0	7068.1	5770.1
20°	5529.1	5563.9	5743.9	6179.5	6824.2	7625.7	8374.9	8554.9	7863.8	7704.1	6138.9
22.5°	5694.6	5706.2	5767.2	6028.5	6647.1	7657.6	8781.5	9289.6	8610.1	8467.9	6522.2
25°	6504.8	6388.7	6327.6	6269.6	6609.3	7628.6	9150.2	10056.3	9353.5	9202.5	6902.6
27.5°	7782.5	7730.2	7422.4	7010.1	6931.7	7666.3	9394.1	10782.2	10053.4	9890.7	7274.3
30°	9173.5	9083.5	8894.7	8290.7	7683.8	7933.5	9571.3	11487.9	10880.9	10666.1	7614.1
32.5°	10451.2	10509.3	10227.6	9606.2	8903.4	8502.7	9800.7	12257.4	11830.5	11563.4	8009.0
35°	11940.9	12057.1	11624.4	11029.0	10207.3	9530.6	10247.9	13125.7	13035.7	12698.8	8618.8
37.5°	13453.8	13523.5	13259.3	12422.9	11682.4	10837.4	11090.1	14197.3	14519.6	14232.1	9347.7
40°	14725.7	14821.6	14627.0	13883.6	13093.8	12350.3	12312.6	15364.6	16285.1	15988.9	10433.8
42.5°	15698.6	15771.2	15777.0	15251.4	14539.9	14203.1	13872.0	16854.3	18498.0	18155.3	11694.1
45°	16926.9	17031.5	16970.5	16613.3	16081.9	16020.9	15849.6	18654.7	21146.4	20713.7	13329.0
47.5°	18826.1	18895.8	18744.8	18323.7	17783.6	17879.4	17777.8	20673.0	23847.0	23475.3	15021.9
50°	20144.5	20260.6	20475.5	20643.9	20252.0	19897.6	19595.6	22557.6	26411.1	26077.1	16752.7
52.5°	20129.9	20321.6	21001.1	21849.1	22705.7	22598.3	21730.0	24639.7	28859.1	28446.7	18378.9
55°	18773.8	19145.5	20144.5	21648.7	24021.2	25203.1	24808.2	27050.0	30973.2	30694.4	20263.6
57.5°	15974.5	16200.9	17589.0	19691.4	23286.5	26428.5	28374.2	30316.9	33508.3	33377.6	23190.7
60°	10744.5	10846.1	12632.1	15231.0	19825.1	25206.0	30987.7	34269.2	36630.0	36566.1	26608.6
62.5°	6156.3	6199.9	7495.0	9687.5	14107.2	21361.2	31208.4	39144.8	40373.1	40408.0	30563.7
65°	3313.4	3336.6	4382.0	5685.8	8584.0	15225.2	28063.4	41816.4	43399.0	43465.8	33014.6
66°	2860.3	2750.0	3487.6	4846.6	6830.0	12118.1	26074.3	41720.6	43979.8	43907.2	32927.5
67.5°	2175.0	2273.7	2784.9	3725.7	5061.6	8616.0	21526.7	39865.0	43538.4	43311.9	31588.8
70°	1556.5	1597.1	1983.4	2657.1	3446.9	4727.6	13755.8	33110.4	39571.7	39266.8	27520.4
72.5°	1004.7	1048.3	1405.5	1922.4	2491.5	2581.6	7701.2	23922.5	30508.5	30465.0	20725.3
75°	717.3	757.9	929.2	1376.5	1873.0	1597.1	3708.3	16122.6	19395.2	19264.6	12820.8
77.5°	519.8	540.1	621.4	900.2	1338.7	1144.2	1719.1	8610.1	9655.5	10111.4	5665.6
80°	299.1	316.6	432.7	548.8	906.0	781.1	821.8	3455.7	3563.1	3391.8	1771.4
82.5°	148.1	168.5	258.4	374.6	566.2	525.6	377.5	1039.6	1097.7	1068.7	447.2
85°	34.8	43.6	145.2	246.8	275.8	235.2	182.9	304.9	377.5	368.8	171.3
87.5°	2.9	5.8	52.3	43.6	46.4	78.4	63.9	78.4	121.9	113.3	61.0
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°	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9
2.5°	4332.7	4277.5	4117.8	3960.9	3830.3	3693.8	3569.0	3496.3	3467.3	3435.3	3449.9
5°	4393.6	4260.1	3937.7	3658.9	3386.0	3153.7	2967.8	2848.7	2790.7	2781.9	2767.4
7.5°	4475.0	4245.5	3746.1	3310.4	2953.3	2694.8	2482.9	2311.5	2259.3	2212.8	2175.0
10°	4573.7	4219.4	3507.9	2944.6	2564.1	2238.9	1960.1	1756.8	1652.3	1623.3	1643.7
12.5°	4678.2	4170.0	3258.2	2607.7	2169.2	1754.0	1495.6	1393.9	1364.9	1353.3	1356.1
15°	4782.8	4109.0	2996.8	2282.5	1727.8	1399.7	1280.6	1254.5	1242.9	1237.0	1231.2
17.5°	4878.6	4010.3	2703.6	1965.9	1399.7	1196.4	1152.8	1129.6	1106.4	1097.7	1083.1
20°	4991.8	3897.0	2439.3	1611.7	1184.8	1083.1	1030.9	987.3	952.5	929.2	926.4
22.5°	5099.3	3751.9	2163.4	1335.8	1080.3	972.8	888.6	842.2	801.5	772.5	781.1
25°	5157.3	3574.8	1916.6	1164.4	984.4	862.4	769.5	711.5	667.9	653.4	650.5
27.5°	5157.3	3356.9	1675.5	1065.7	897.3	763.7	667.9	612.8	583.7	563.4	566.2
30°	5116.7	3115.9	1452.0	990.3	821.8	676.6	586.6	537.2	514.0	499.5	496.6
32.5°	5084.8	2886.5	1260.3	917.6	743.4	601.1	522.7	484.9	461.7	447.2	447.2
35°	5134.1	2689.0	1112.2	845.0	670.8	543.0	473.3	438.5	415.3	403.7	400.7
37.5°	5264.8	2509.0	998.9	766.7	604.0	493.7	438.5	397.9	374.6	360.1	354.3
40°	5587.1	2407.4	914.8	694.1	540.1	453.0	397.9	360.1	331.0	316.6	313.6
42.5°	6104.1	2410.2	833.4	627.2	490.7	418.1	363.0	319.4	287.5	273.0	270.0
45°	6882.3	2520.6	769.5	563.4	447.2	380.4	325.2	278.8	249.8	235.2	235.2
47.5°	7814.4	2735.5	714.3	508.2	406.5	345.6	287.5	241.0	212.0	200.4	200.4
50°	8825.0	3014.2	659.2	450.1	371.7	307.8	246.8	209.1	185.9	177.1	177.1
52.5°	9855.9	3351.1	604.0	403.7	334.0	267.2	212.0	185.9	165.5	159.7	156.8
55°	11209.1	3780.9	546.0	354.3	293.3	229.4	188.7	162.6	139.4	130.7	127.7
57.5°	13291.2	4428.5	482.1	310.7	241.0	191.7	162.6	136.5	110.3	95.8	92.9
60°	15803.1	5218.3	415.3	273.0	194.5	156.8	130.7	104.5	81.3	63.9	61.0
62.5°	18155.3	5720.7	351.4	229.4	153.9	119.1	92.9	78.4	58.1	40.6	37.8
65°	19194.9	5552.3	290.4	185.9	121.9	84.2	61.0	55.2	34.8	17.4	14.5
66°	18849.3	5302.6	267.2	168.5	110.3	72.6	52.3	46.4	26.2	8.7	8.7
67.5°	17830.0	4713.0	232.3	145.2	95.8	58.1	40.6	34.8	14.5	2.9	0.0
70°	15277.5	3812.8	182.9	107.5	69.7	40.6	23.2	17.4	8.7	0.0	0.0
72.5°	11734.7	2840.1	145.2	81.3	49.4	23.2	11.6	5.8	8.7	0.0	0.0
75°	7190.1	1623.3	113.3	61.0	32.0	14.5	8.7	0.0	8.7	2.9	0.0
77.5°	3191.4	728.9	75.5	40.6	23.2	11.6	5.8	0.0	5.8	2.9	0.0
80°	807.3	238.1	43.6	29.0	17.4	8.7	2.9	0.0	5.8	5.8	2.9
82.5°	220.7	87.1	32.0	23.2	14.5	8.7	2.9	0.0	5.8	5.8	5.8
85°	87.1	40.6	29.0	23.2	17.4	8.7	2.9	0.0	5.8	5.8	5.8
87.5°	40.6	29.0	29.0	26.2	20.4	8.7	2.9	0.0	5.8	2.9	5.8
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)