

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: P530819

Luminaire Tested: **GALN-SA6A-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16493 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

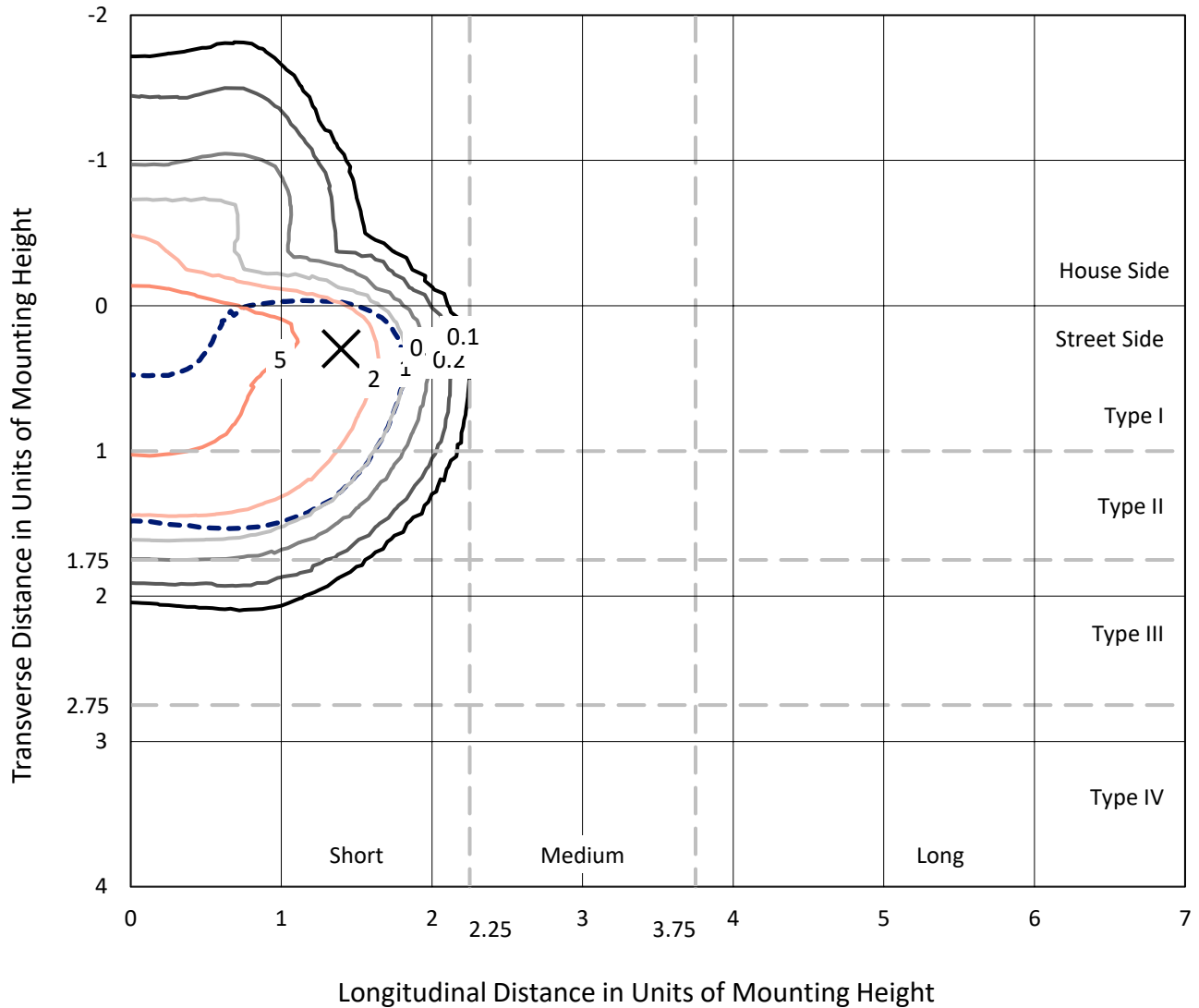
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

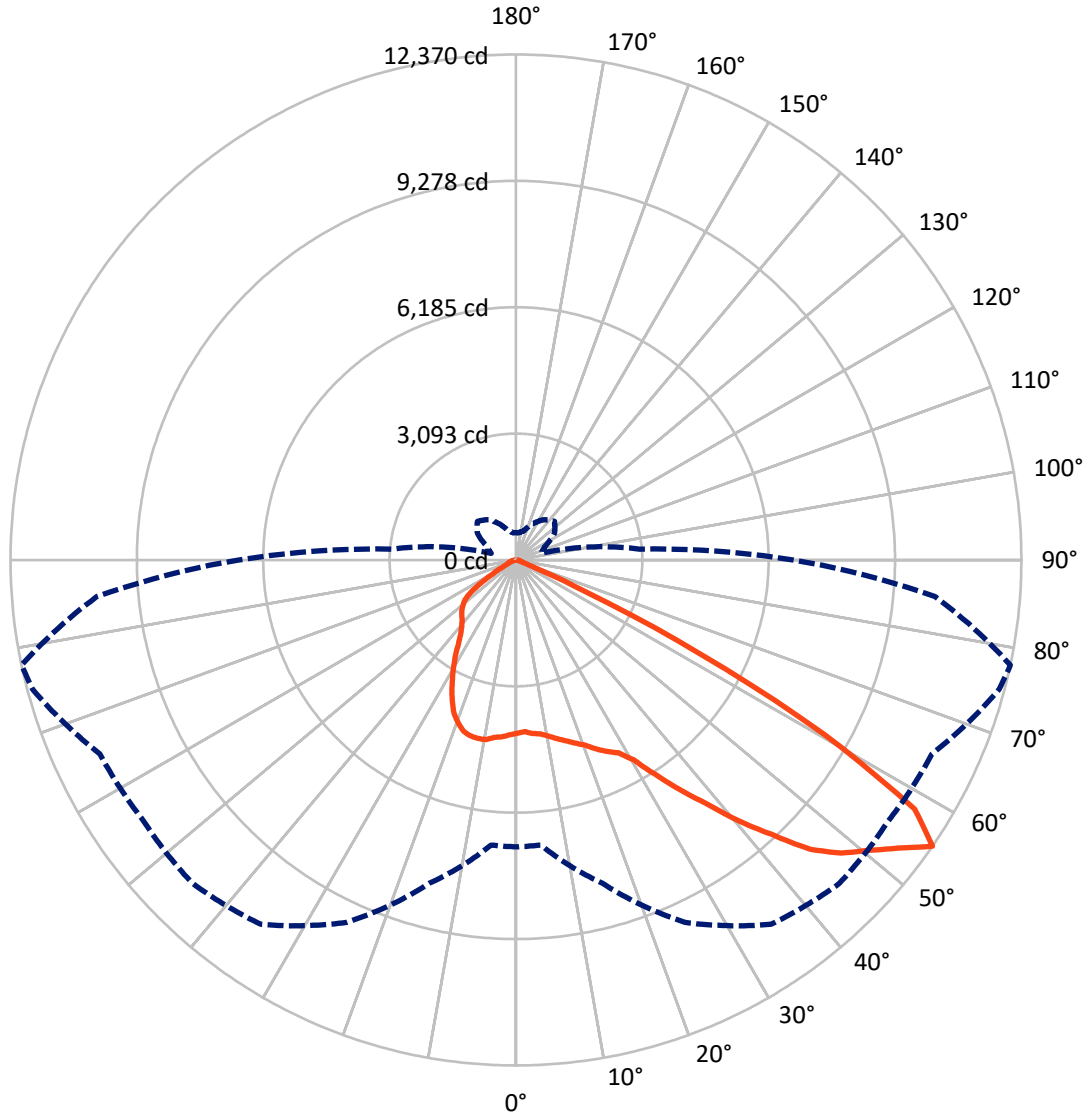
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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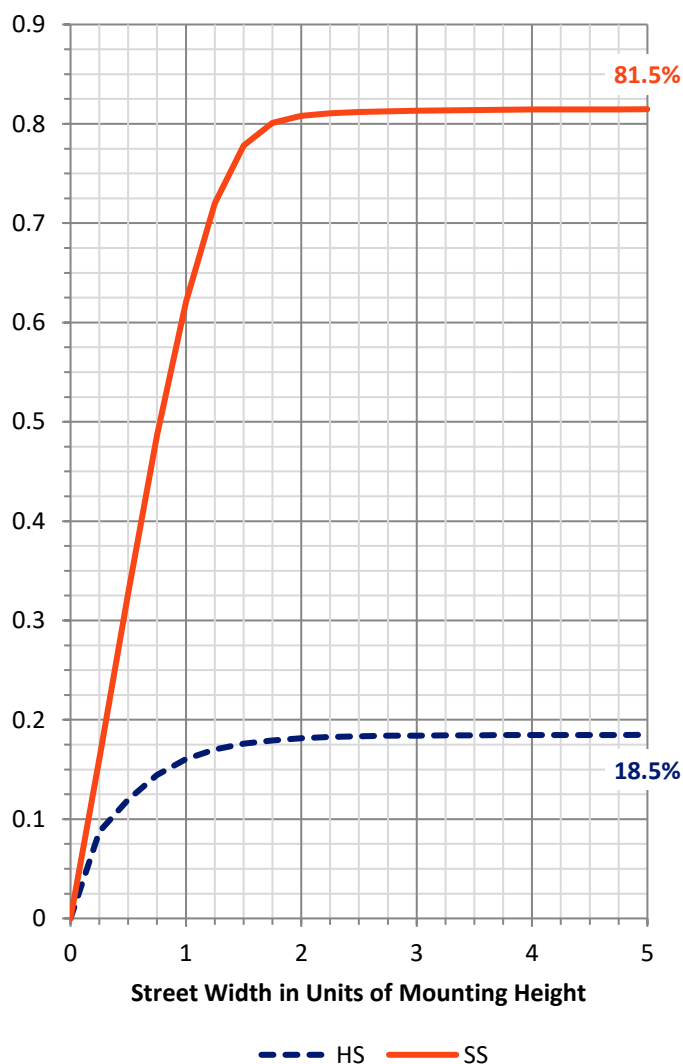
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.4	0.0	3063.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13429.6	0.0	13429.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	16493.0	0.0	16493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.1	2.3
10°-20°	1000.7	6.1
20°-30°	1754.0	10.6
30°-40°	2892.1	17.5
40°-50°	4208.4	25.5
50°-60°	4768.5	28.9
60°-70°	1363.4	8.3
70°-80°	105.9	0.6
80°-90°	22.0	0.1
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°	16493.0	100.0
0°-180°	16493.0	100.0

Coefficient of Utilization



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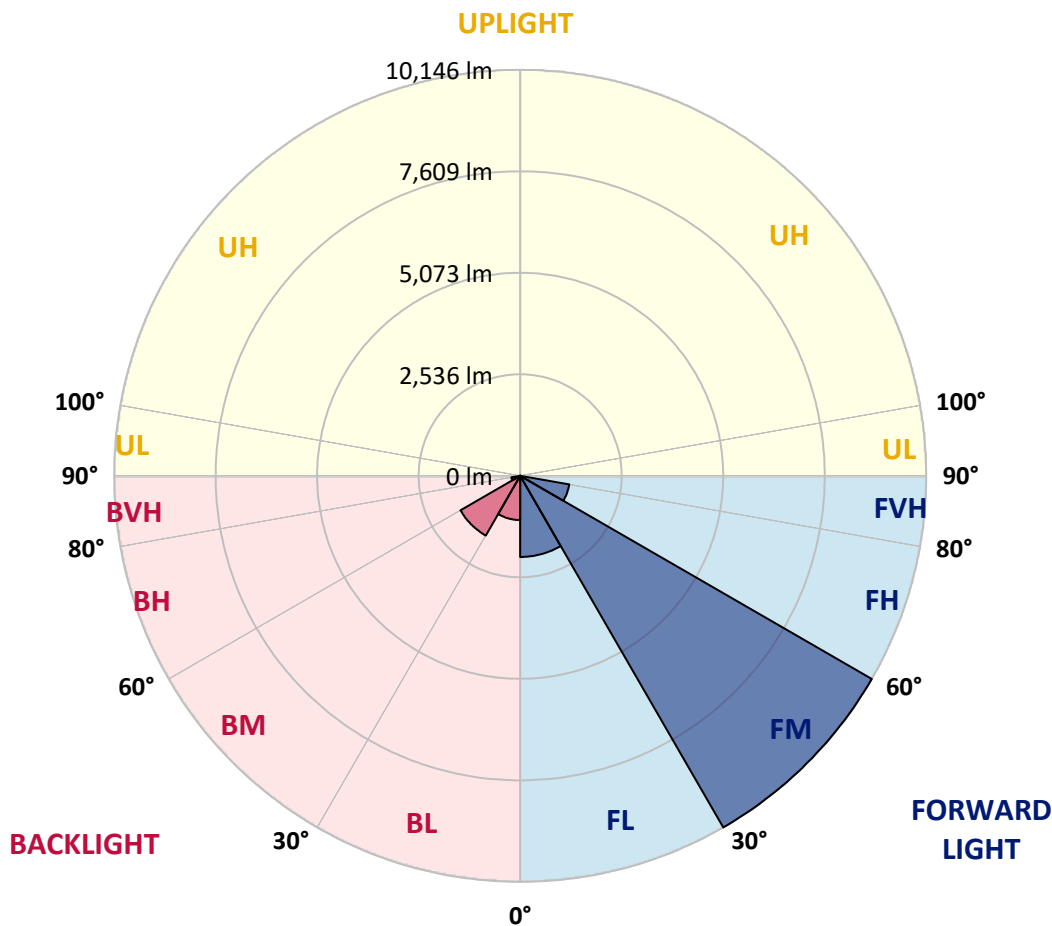
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.5	12.3			
FM (30°-60°)	10145.8	61.5			
FH (60°-80°)	1245.7	7.6			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1105.3	6.7	B3/2500		
BM (30°-60°)	1723.2	10.4	B2/2500		
BH (60°-80°)	223.6	1.4	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4
2.5°	3986.8	4025.1	4031.0	4078.2	4075.2	4154.8	4178.4	4181.4	4234.5	4207.9	4275.7
5°	3874.7	3854.1	3845.2	3927.8	3951.4	4022.1	4081.1	4116.5	4225.6	4264.0	4334.7
7.5°	3774.5	3774.5	3780.3	3854.1	3845.2	3936.6	3998.6	4107.7	4266.9	4299.3	4384.9
10°	3677.1	3641.8	3686.0	3762.7	3827.5	3868.8	3998.6	4101.8	4287.5	4381.9	4499.9
12.5°	3627.0	3644.7	3650.6	3706.6	3777.4	3901.2	3972.0	4143.0	4435.0	4491.0	4617.8
15°	3942.5	3907.1	3821.6	3771.5	3830.5	3889.5	4066.4	4240.4	4511.6	4591.3	4732.8
17.5°	4308.2	4278.7	4207.9	4072.3	3939.6	4048.7	4187.3	4346.5	4594.2	4712.2	4921.5
20°	4785.9	4738.7	4667.9	4402.5	4287.5	4169.6	4317.0	4505.8	4729.9	4836.0	5051.3
22.5°	5355.0	5355.0	5195.8	4874.3	4635.5	4523.4	4585.4	4694.5	4880.2	5024.7	5237.1
25°	5947.7	5930.0	5785.5	5452.3	5048.3	4915.6	4986.4	5063.1	5113.2	5192.8	5334.4
27.5°	6625.9	6522.7	6339.9	5971.3	5614.5	5358.0	5434.6	5366.8	5304.9	5346.2	5549.6
30°	7085.9	7150.8	6917.9	6564.0	6227.8	5941.8	5956.6	5897.6	5614.5	5673.5	5794.4
32.5°	7563.6	7604.9	7475.2	7280.6	6944.4	6611.2	6490.3	6440.2	6227.8	6254.4	6136.4
35°	7961.7	8041.4	7926.3	7840.8	7743.5	7475.2	7142.0	7304.2	6962.1	6897.2	6590.5
37.5°	8327.4	8303.8	8439.4	8351.0	8330.3	8141.6	7776.0	7808.4	7578.4	7563.6	7209.8
40°	8654.7	8660.6	8846.4	8887.7	8805.1	8468.9	7938.1	8194.7	8380.5	8398.2	7944.0
42.5°	8926.0	9005.6	9164.8	9498.1	9374.2	8813.9	8106.2	8386.4	9076.4	9185.5	8640.0
45°	9161.9	9324.1	9521.6	9819.5	9748.7	9303.4	8525.0	8781.5	9819.5	10105.5	9294.6
47.5°	9176.6	9388.9	9604.2	10046.5	10135.0	9565.9	8958.4	9406.6	10409.2	10718.9	9772.3
50°	9117.7	9229.7	9660.2	10140.9	10341.4	9993.4	9565.9	9931.5	10981.3	11175.9	10014.1
52.5°	8418.8	8504.3	9368.3	10229.4	10713.0	10477.1	10370.9	10662.8	11565.2	11709.6	10241.1
55°	7018.1	7003.4	8191.7	9784.1	10884.0	11193.6	11128.7	11231.9	12240.4	12370.2	10297.2
57.5°	4800.6	5069.0	6095.1	8147.5	9837.2	11025.5	11093.3	10922.3	11453.1	11503.2	8976.1
60°	2589.0	2701.1	3526.8	5437.6	7489.9	8985.0	9161.9	8852.3	8811.0	8669.4	6407.7
62.5°	1029.1	1085.2	1554.0	2692.2	4081.1	5461.2	5841.6	5714.8	5443.5	5071.9	3317.4
65°	489.5	524.9	772.6	1259.1	1810.6	2276.5	2656.9	2774.8	2046.5	1843.0	1094.0
67.5°	333.2	359.8	563.2	719.5	645.8	675.3	878.7	816.8	480.7	409.9	303.7
70°	253.6	271.3	451.2	489.5	289.0	203.5	227.1	212.3	197.6	200.5	197.6
72.5°	179.9	194.6	330.3	289.0	126.8	94.4	120.9	144.5	144.5	144.5	141.5
75°	109.1	123.8	191.7	112.1	50.1	50.1	76.7	97.3	103.2	106.2	100.3
77.5°	56.0	70.8	64.9	32.4	32.4	38.3	56.0	67.8	73.7	73.7	70.8
80°	11.8	11.8	11.8	17.7	32.4	41.3	56.0	61.9	70.8	70.8	64.9
82.5°	0.0	2.9	8.8	17.7	29.5	38.3	53.1	61.9	70.8	73.7	67.8
85°	0.0	2.9	5.9	11.8	20.6	23.6	20.6	17.7	17.7	17.7	17.7
87.5°	0.0	0.0	2.9	2.9	2.9	5.9	5.9	5.9	5.9	5.9	5.9
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°	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4
2.5°	4281.6	4290.5	4275.7	4272.8	4261.0	4296.4	4210.9	4190.2	4243.3	4193.2	4205.0
5°	4337.7	4358.3	4331.8	4287.5	4222.7	4122.4	4036.9	3924.8	3871.8	3833.4	3827.5
7.5°	4379.0	4393.7	4367.2	4225.6	4031.0	3777.4	3588.7	3450.1	3341.0	3308.5	3255.5
10°	4547.0	4550.0	4417.3	4104.7	3724.3	3391.1	3102.1	2889.8	2780.7	2712.9	2683.4
12.5°	4659.1	4653.2	4384.9	3865.9	3358.7	2916.4	2586.1	2329.5	2229.3	2196.8	2176.2
15°	4800.6	4768.2	4308.2	3621.1	2886.9	2409.2	2111.3	1934.4	1925.6	1904.9	1925.6
17.5°	4912.7	4821.3	4196.1	3175.8	2435.7	1984.5	1789.9	1801.7	1825.3	1845.9	1848.9
20°	5095.5	4906.8	3939.6	2786.6	2017.0	1701.5	1698.5	1751.6	1810.6	1834.1	1857.7
22.5°	5234.1	4942.2	3665.3	2370.8	1674.9	1586.4	1636.6	1716.2	1760.4	1784.0	1819.4
25°	5284.2	4844.9	3299.7	1955.0	1509.8	1533.4	1610.0	1663.1	1719.1	1745.7	1730.9
27.5°	5334.4	4794.7	2863.3	1610.0	1421.3	1498.0	1562.9	1615.9	1633.6	1669.0	1692.6
30°	5455.3	4620.8	2471.1	1391.8	1377.1	1474.4	1521.6	1539.3	1586.4	1607.1	1607.1
32.5°	5552.6	4552.9	2055.3	1288.6	1371.2	1486.2	1492.1	1492.1	1498.0	1483.2	1477.3
35°	5753.1	4320.0	1683.8	1226.7	1368.2	1489.1	1503.9	1453.8	1318.1	1265.0	1250.3
37.5°	6000.8	4169.6	1409.5	1212.0	1388.9	1524.5	1548.1	1359.4	1182.5	1096.9	1082.2
40°	6301.6	4063.4	1229.6	1206.1	1436.1	1607.1	1536.3	1285.7	1055.7	931.8	925.9
42.5°	6652.5	3966.1	1108.7	1203.1	1495.0	1692.6	1524.5	1223.7	925.9	843.4	855.1
45°	6932.6	3913.0	1026.2	1182.5	1515.7	1742.7	1533.4	1114.6	872.8	819.8	825.7
47.5°	7150.8	3801.0	958.4	1147.1	1512.7	1760.4	1453.8	1070.4	846.3	861.0	875.8
50°	7156.7	3650.6	872.8	1070.4	1468.5	1728.0	1362.3	1029.1	840.4	902.3	931.8
52.5°	7077.1	3438.3	781.4	961.3	1365.3	1615.9	1279.8	1011.4	813.9	808.0	843.4
55°	6794.0	3040.2	628.1	778.5	1153.0	1332.9	1206.1	979.0	734.2	666.4	672.3
57.5°	5490.6	2179.2	463.0	557.3	816.8	976.0	1088.1	964.3	660.5	566.2	569.1
60°	3400.0	1235.5	339.1	380.4	504.2	592.7	881.7	896.4	589.8	477.7	471.8
62.5°	1745.7	610.4	262.4	268.3	309.6	348.0	604.5	751.9	533.7	454.1	454.1
65°	583.9	300.8	230.0	206.4	206.4	215.3	365.6	521.9	451.2	380.4	380.4
67.5°	250.6	224.1	200.5	179.9	165.1	156.3	206.4	303.7	336.2	289.0	277.2
70°	194.6	188.7	174.0	150.4	129.7	118.0	120.9	156.3	191.7	185.8	179.9
72.5°	144.5	144.5	138.6	118.0	100.3	85.5	79.6	82.6	91.4	94.4	97.3
75°	100.3	103.2	103.2	91.4	73.7	61.9	53.1	44.2	35.4	29.5	26.5
77.5°	67.8	70.8	76.7	67.8	56.0	41.3	32.4	23.6	14.7	5.9	5.9
80°	59.0	67.8	73.7	67.8	59.0	44.2	32.4	17.7	8.8	0.0	0.0
82.5°	61.9	67.8	76.7	64.9	56.0	41.3	32.4	20.6	8.8	2.9	0.0
85°	14.7	14.7	17.7	20.6	26.5	29.5	23.6	14.7	8.8	2.9	0.0
87.5°	5.9	5.9	5.9	5.9	5.9	2.9	2.9	2.9	2.9	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)