

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: P456664

Luminaire Tested: **GALN-SA8A-722-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-722-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27097 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

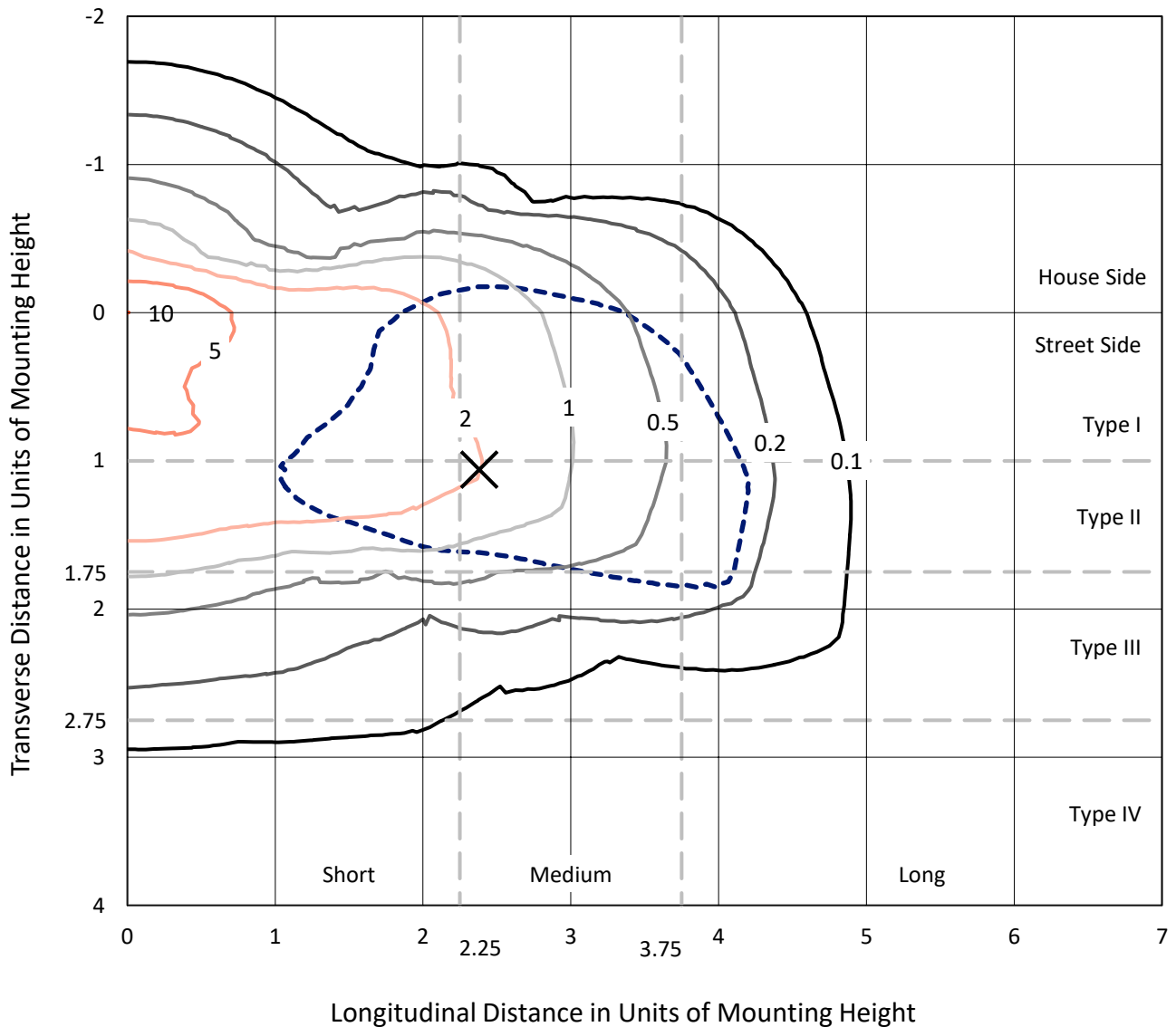
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

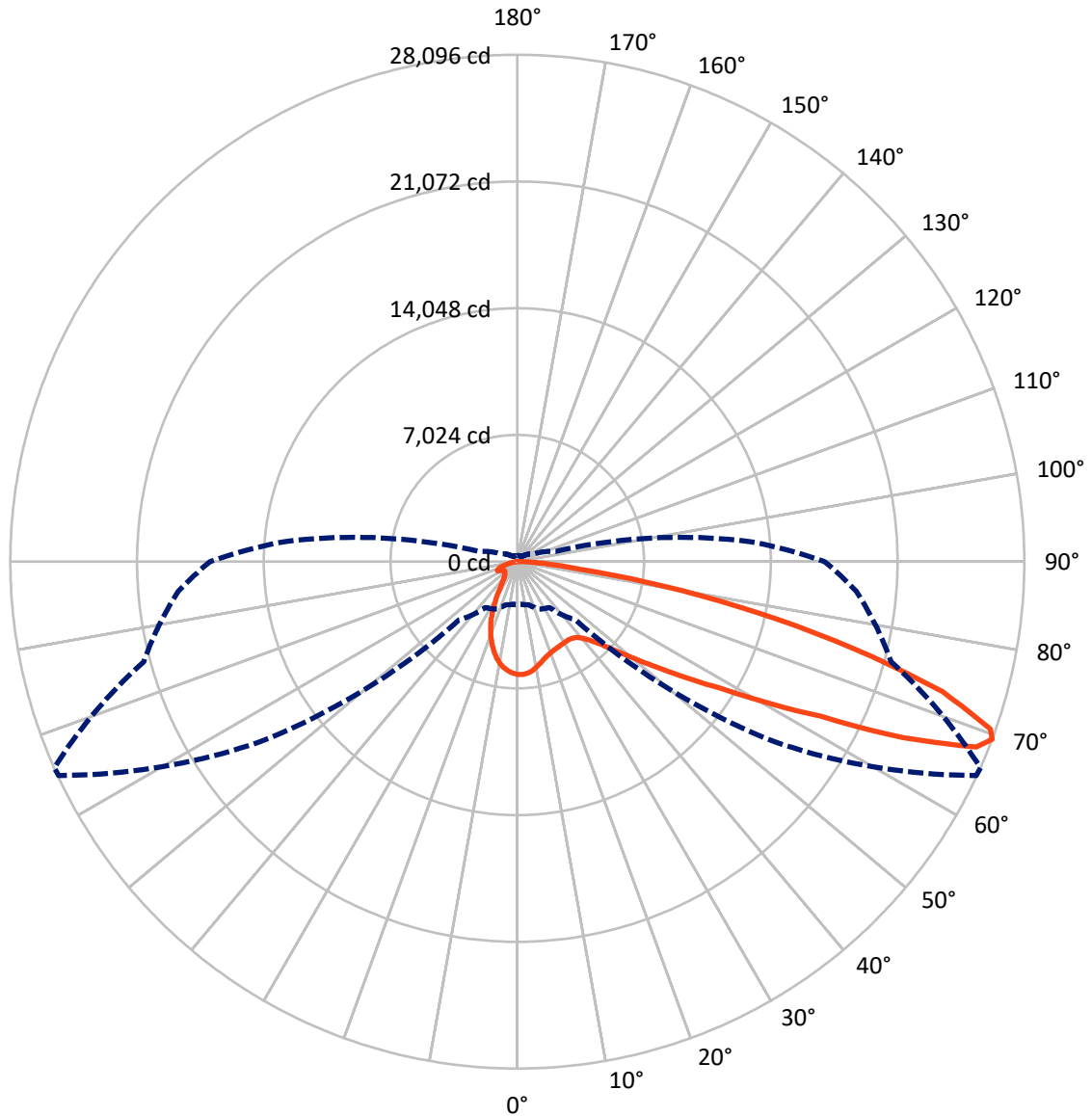
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5095.9	0.0	5095.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22001.1	0.0	22001.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	27097.0	0.0	27097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.4	2.0
10°-20°	1288.9	4.8
20°-30°	1754.6	6.5
30°-40°	2357.9	8.7
40°-50°	3520.7	13.0
50°-60°	5600.2	20.7
60°-70°	6888.0	25.4
70°-80°	4481.6	16.5
80°-90°	661.8	2.4
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°	27097.0	100.0
0°-180°	27097.0	100.0

Coefficient of Utilization



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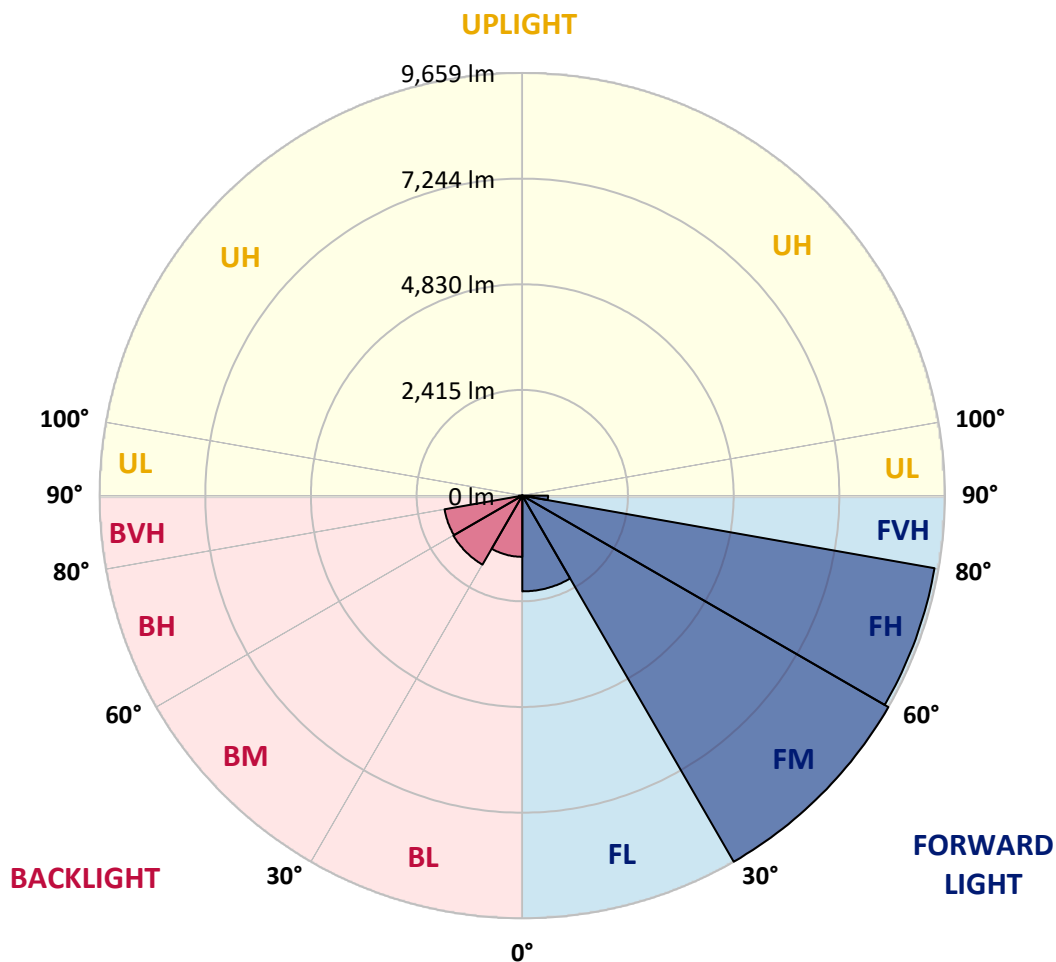
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2188.0	8.1			
FM	(30°-60°)	9659.3	35.6			
FH	(60°-80°)	9565.4	35.3			G4/12000
FVH	(80°-90°)	588.4	2.2			G4/750
BL	(0°-30°)	1398.9	5.2	B3/2500		
BM	(30°-60°)	1819.5	6.7	B2/2500		
BH	(60°-80°)	1804.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	73.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5
2.5°	6038.4	6062.4	6089.4	6119.4	6176.4	6207.9	6230.4	6255.9	6259.0	6272.5	6262.0
5°	5592.7	5621.2	5661.7	5718.7	5804.3	5937.8	6075.9	6188.4	6201.9	6265.0	6283.0
7.5°	5220.5	5237.1	5270.1	5361.6	5483.1	5631.7	5832.8	6060.9	6093.9	6243.9	6296.5
10°	4917.4	4933.9	4972.9	5067.5	5187.5	5373.6	5594.2	5894.3	5921.3	6179.4	6299.5
12.5°	4690.8	4705.8	4747.9	4840.9	4978.9	5153.0	5396.1	5714.2	5753.3	6093.9	6271.0
15°	4518.3	4546.8	4581.3	4657.8	4803.4	4971.4	5207.0	5549.2	5580.7	6003.9	6251.4
17.5°	4444.7	4458.2	4482.3	4552.8	4659.3	4824.4	5061.5	5420.1	5457.6	5940.8	6246.9
20°	4447.7	4461.2	4465.7	4504.8	4581.3	4723.8	4957.9	5318.1	5363.1	5885.3	6254.4
22.5°	4549.8	4551.3	4534.8	4521.3	4551.3	4669.8	4884.4	5241.6	5294.1	5861.3	6260.5
25°	4707.3	4734.4	4710.3	4647.3	4591.8	4648.8	4855.9	5199.5	5249.1	5826.8	6252.9
27.5°	4962.4	4966.9	4947.4	4861.9	4717.8	4675.8	4843.9	5168.0	5210.0	5801.3	6215.4
30°	5304.6	5291.1	5273.1	5178.5	4951.9	4779.4	4869.4	5139.5	5183.0	5763.8	6170.4
32.5°	5651.2	5693.2	5676.7	5565.7	5271.6	4980.5	4951.9	5136.5	5172.5	5735.2	6120.9
35°	6018.9	6038.4	6116.4	6059.4	5757.8	5306.1	5106.5	5183.0	5211.5	5736.7	6086.4
37.5°	6307.0	6359.5	6542.6	6592.1	6308.5	5736.7	5357.1	5315.1	5327.1	5810.3	6099.9
40°	6655.1	6745.1	6980.7	7183.3	6997.2	6296.5	5783.3	5559.7	5574.7	5987.3	6188.4
42.5°	7096.3	7159.3	7475.9	7750.5	7720.5	7036.3	6299.5	5960.3	5967.8	6340.0	6436.0
45°	7612.5	7702.5	8058.2	8470.8	8541.3	7873.6	7045.3	6566.6	6562.1	6887.7	6898.2
47.5°	8272.7	8328.3	8680.9	9131.1	9416.2	8925.5	7950.1	7436.9	7388.9	7686.0	7600.5
50°	8880.5	8967.5	9234.6	9726.8	10436.6	10157.5	9140.1	8565.4	8452.8	8730.4	8586.4
52.5°	9135.6	9227.1	9452.2	10062.9	11311.4	11751.1	10651.2	9911.4	9723.8	9936.9	9884.4
55°	8692.9	8811.5	9021.5	9764.3	11695.6	13589.3	12689.0	11467.5	11330.9	11239.4	11254.4
57.5°	7502.9	7615.5	7899.1	8718.4	11236.4	14923.3	15598.6	13467.8	13175.2	12753.5	12825.5
60°	5711.2	5781.8	5928.8	6836.7	9875.4	15270.0	18902.9	15996.3	15810.2	14261.6	14312.6
62.5°	4056.1	4135.6	4237.7	4690.8	7229.8	14293.1	21489.9	19527.1	18862.4	15823.7	15774.2
65°	3293.8	3239.8	3362.8	3574.4	4242.2	11077.3	22072.1	24428.1	23512.7	17881.0	17193.7
67.5°	2708.6	2651.5	2773.1	3149.7	3226.3	6430.0	19974.3	27609.3	27426.2	20118.4	18635.8
69°	2397.9	2367.9	2474.5	2903.6	3097.2	4566.3	17400.8	28052.0	28095.5	21437.4	18857.9
70°	2160.8	2172.9	2276.4	2779.1	3038.7	3765.0	14872.3	27441.2	27810.4	22096.2	18617.8
72.5°	1590.6	1616.1	1760.2	2301.9	2983.2	3194.8	8850.5	23968.9	24621.6	22135.2	17031.7
75°	1111.9	1099.9	1227.5	1733.2	2818.1	3166.2	5198.0	18536.8	19276.5	19132.5	14311.1
77.5°	727.8	747.3	849.3	1224.5	2370.9	3142.2	3388.3	13151.1	13631.3	12795.5	8464.8
80°	513.2	511.7	568.7	835.8	1758.7	3019.2	2774.6	8289.2	8167.7	5028.5	2510.5
82.5°	294.1	315.1	381.1	588.2	1176.5	2657.5	2552.5	3964.6	3619.4	1433.1	847.8
85°	163.6	171.1	226.6	355.6	687.3	2001.8	2228.4	1803.7	1701.7	598.7	364.6
87.5°	52.5	57.0	94.5	180.1	312.1	945.4	1262.0	832.8	768.3	216.1	147.1
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°	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5	6257.5
2.5°	6266.5	6284.5	6236.4	6189.9	6147.9	6089.4	6036.9	5993.3	5963.3	5958.8	5943.8
5°	6287.5	6289.0	6197.4	6074.4	5954.3	5822.3	5685.7	5588.2	5496.7	5445.6	5420.1
7.5°	6302.5	6289.0	6123.9	5924.3	5693.2	5453.1	5213.0	5021.0	4872.4	4813.9	4836.4
10°	6296.5	6254.4	6012.9	5693.2	5357.1	4998.5	4653.3	4383.2	4135.6	4008.1	4011.1
12.5°	6263.5	6194.4	5847.8	5433.6	4939.9	4459.7	3931.5	3566.9	3280.3	3110.7	3058.2
15°	6234.9	6114.9	5654.2	5081.0	4467.2	3781.5	3137.7	2687.6	2447.5	2313.9	2312.4
17.5°	6204.9	6038.4	5442.6	4707.3	3924.0	3041.7	2366.4	2022.8	1910.2	1923.8	1901.2
20°	6173.4	5948.3	5222.0	4291.7	3262.3	2268.9	1772.2	1632.6	1664.2	1725.7	1734.7
22.5°	6137.4	5852.3	4985.0	3834.0	2566.0	1707.7	1437.6	1416.6	1497.6	1593.6	1607.1
25°	6081.9	5732.2	4686.3	3355.3	1979.3	1376.0	1259.0	1274.0	1353.5	1434.6	1443.6
27.5°	6003.9	5583.7	4384.7	2758.1	1487.1	1181.0	1151.0	1170.5	1209.5	1259.0	1271.0
30°	5898.8	5415.6	4038.1	2241.9	1191.5	1083.4	1071.4	1081.9	1104.4	1125.4	1131.4
32.5°	5793.8	5253.6	3688.4	1716.7	1062.4	1018.9	1006.9	1006.9	1006.9	1009.9	1011.4
35°	5696.2	5100.5	3313.3	1337.0	994.9	967.9	951.4	933.4	930.4	919.9	919.9
37.5°	5642.2	4960.9	2914.1	1119.4	945.4	925.9	903.4	873.3	856.8	858.3	855.3
40°	5652.7	4869.4	2551.0	996.4	904.9	883.8	849.3	814.8	804.3	804.3	801.3
42.5°	5771.3	4839.4	2202.9	931.9	865.8	841.8	798.3	766.8	760.8	759.3	762.3
45°	6044.4	4912.9	1890.7	889.8	832.8	796.8	753.3	724.8	718.8	718.8	717.3
47.5°	6577.1	5151.5	1667.2	862.8	808.8	762.3	717.3	688.8	678.3	675.3	675.3
50°	7405.4	5669.2	1500.6	838.8	778.8	730.8	684.3	651.3	634.7	633.2	631.7
52.5°	8556.4	6476.5	1436.1	820.8	745.8	697.8	646.8	615.2	594.2	589.7	586.7
55°	9902.4	7603.5	1524.6	807.3	711.3	660.3	607.7	574.7	555.2	546.2	544.7
57.5°	11461.5	8957.0	1860.7	789.3	679.8	619.7	568.7	535.7	514.7	504.2	501.2
60°	12861.5	10348.1	2447.5	778.8	652.8	576.2	523.7	493.7	474.2	463.7	462.2
62.5°	14399.6	11674.6	3148.2	807.3	640.8	534.2	481.7	454.7	438.2	427.7	427.7
65°	16042.8	13002.6	3611.9	903.4	658.8	501.2	436.7	414.2	399.2	391.7	390.2
67.5°	17150.2	13461.8	2975.7	1002.4	703.8	465.2	393.2	375.1	366.1	358.6	358.6
69°	17030.2	12881.0	2195.4	1027.9	717.3	447.2	369.1	355.6	343.6	340.6	337.6
70°	16650.5	12219.3	1839.7	1011.4	706.8	430.7	354.1	337.6	327.1	324.1	322.6
72.5°	14830.3	10597.1	1370.0	879.3	601.7	373.6	313.6	298.6	289.6	285.1	285.1
75°	12321.3	8661.4	1069.9	699.3	471.2	315.1	268.6	256.6	249.1	246.1	244.6
77.5°	6905.7	4836.4	768.3	547.7	357.1	255.1	225.1	214.6	207.1	204.1	204.1
80°	1923.8	1382.0	451.7	361.6	243.1	193.6	178.6	171.1	160.6	153.1	157.6
82.5°	724.8	598.7	258.1	217.6	154.6	129.1	124.5	118.5	114.0	103.5	103.5
85°	352.6	291.1	165.1	115.5	85.5	67.5	64.5	61.5	58.5	51.0	52.5
87.5°	121.5	129.1	72.0	42.0	25.5	16.5	13.5	7.5	7.5	7.5	7.5
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)