

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: P453331

Luminaire Tested: **GALN-SA4B-760-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-760-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22311 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

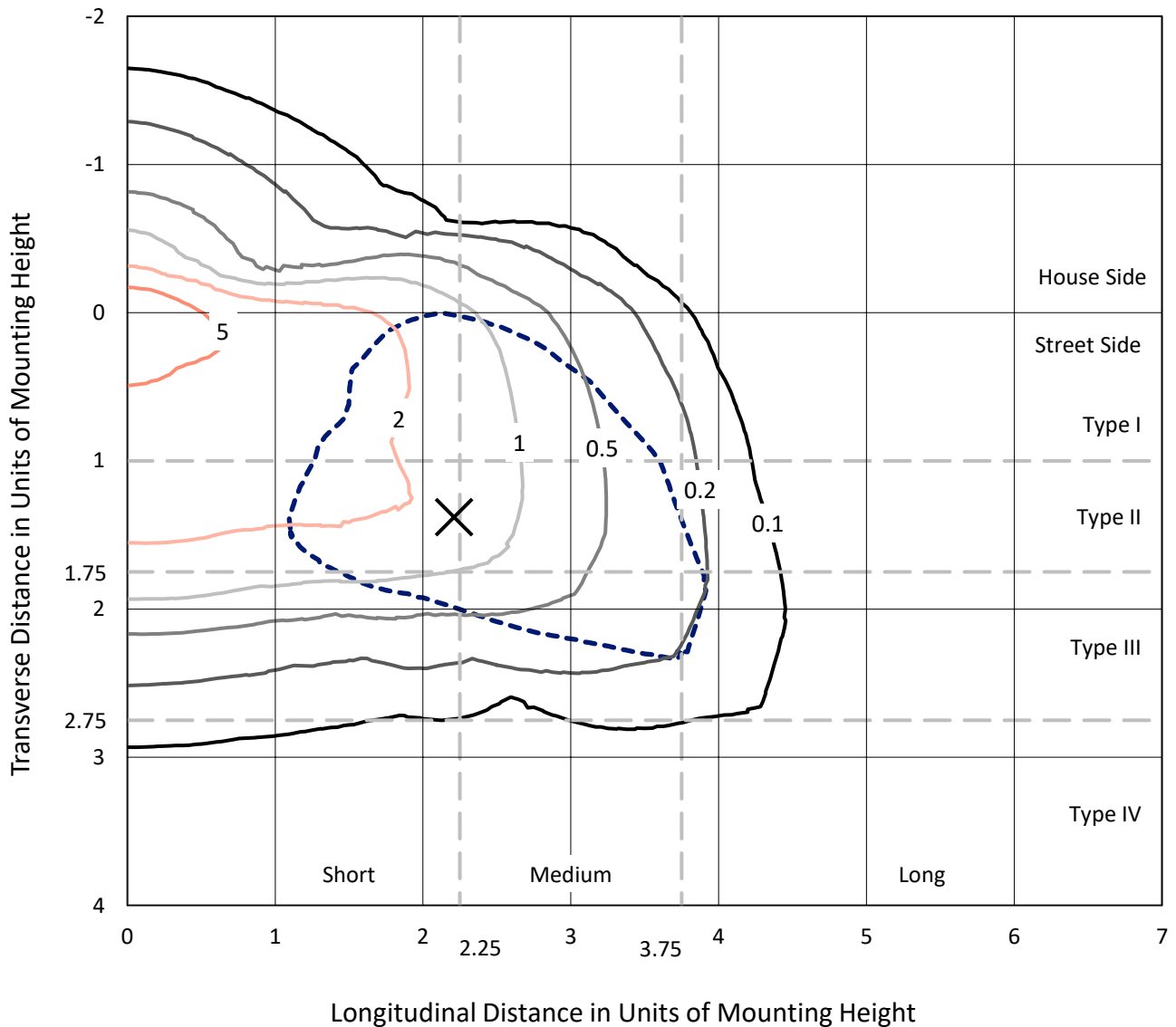
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

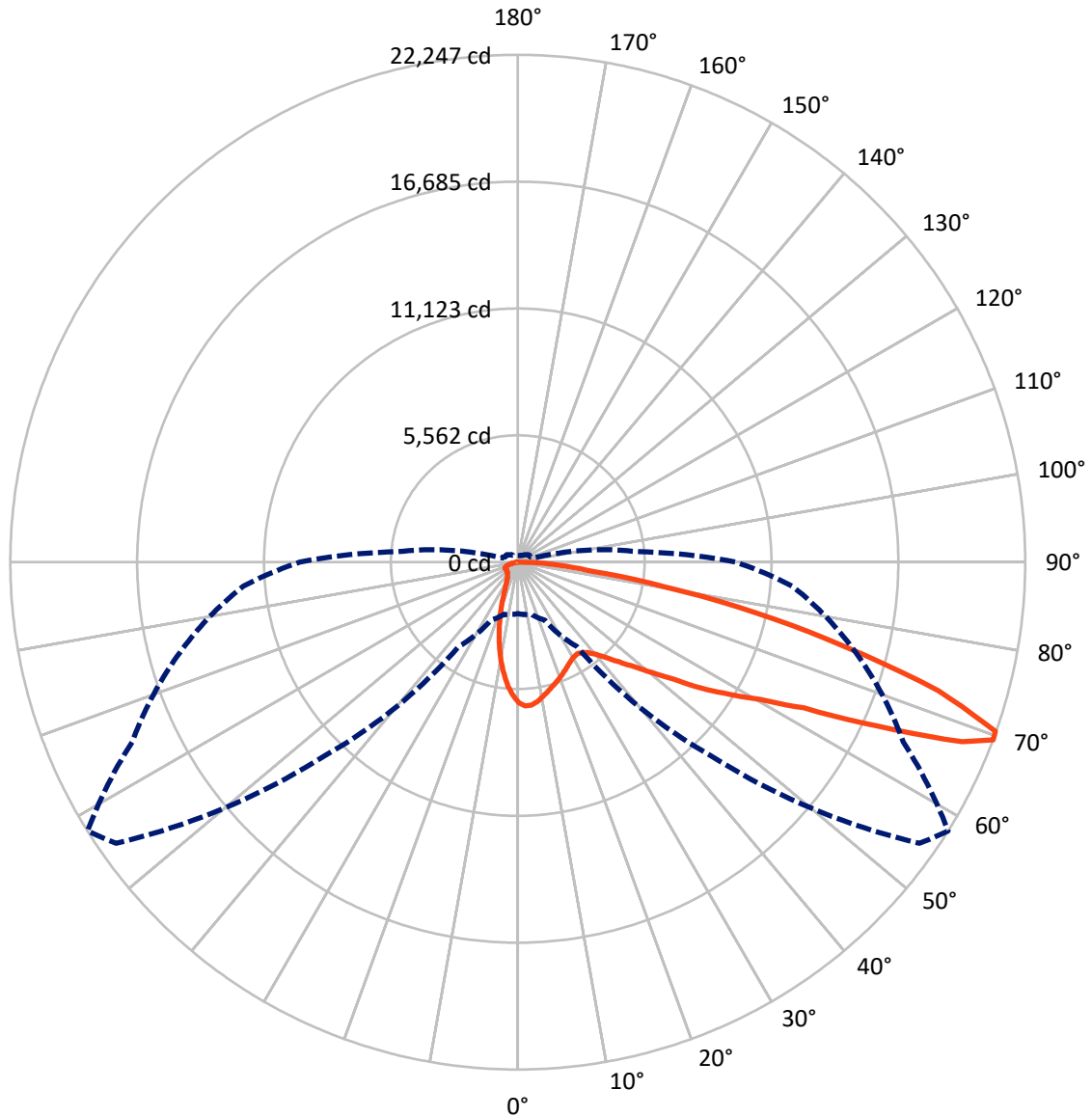
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3269.7	0.0	3269.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	19041.3	0.0	19041.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	22311.0	0.0	22311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.6	2.3
10°-20°	1149.7	5.2
20°-30°	1485.5	6.7
30°-40°	1929.3	8.6
40°-50°	2805.0	12.6
50°-60°	4475.8	20.1
60°-70°	5979.1	26.8
70°-80°	3446.7	15.4
80°-90°	516.2	2.3
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°	22311.0	100.0
0°-180°	22311.0	100.0

**Coefficient of Utilization**



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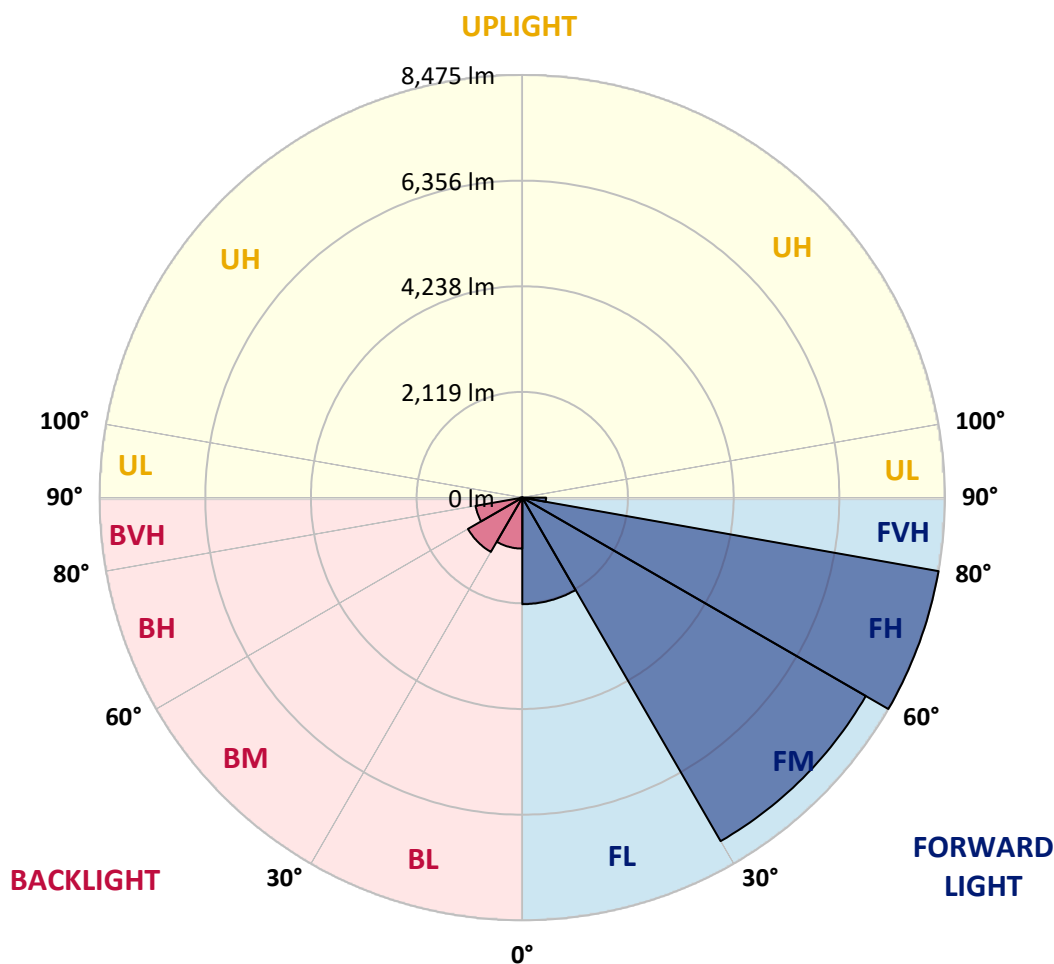
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.8	9.6			
FM (30°-60°)	7952.7	35.6			
FH (60°-80°)	8475.1	38.0			G4/12000
FVH (80°-90°)	476.7	2.1			G3/500
BL (0°-30°)	1022.0	4.6	B3/2500		
BM (30°-60°)	1257.4	5.6	B2/2500		
BH (60°-80°)	950.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	39.5	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5
2.5°	6394.4	6411.8	6406.8	6400.6	6390.7	6363.3	6318.5	6311.0	6282.4	6221.4	6145.5
5°	6296.1	6311.0	6312.3	6321.0	6333.4	6328.5	6296.1	6292.4	6250.1	6167.9	6041.0
7.5°	5958.9	5978.8	6022.4	6070.9	6114.4	6155.5	6165.5	6171.7	6145.5	6051.0	5881.8
10°	5579.4	5599.3	5619.2	5691.4	5798.4	5900.4	5985.0	5996.2	6002.5	5915.4	5708.8
12.5°	5158.8	5199.9	5242.2	5349.2	5492.3	5652.8	5802.1	5825.8	5868.1	5802.1	5559.5
15°	4801.7	4844.0	4905.0	5000.8	5173.8	5405.2	5615.5	5654.1	5737.4	5703.8	5420.1
17.5°	4554.1	4569.0	4611.3	4720.8	4907.5	5151.4	5432.6	5509.7	5642.9	5634.1	5300.7
20°	4358.7	4377.4	4403.5	4470.7	4664.8	4922.4	5262.1	5361.6	5542.1	5571.9	5182.5
22.5°	4276.6	4290.3	4286.6	4322.7	4454.6	4713.4	5089.1	5207.4	5452.5	5529.6	5073.0
25°	4281.6	4294.0	4275.4	4266.7	4345.1	4529.2	4908.7	5059.3	5380.3	5501.0	4973.4
27.5°	4365.0	4373.7	4338.8	4304.0	4310.2	4414.7	4759.4	4926.1	5319.3	5513.4	4890.1
30°	4477.0	4493.1	4470.7	4428.4	4382.4	4387.4	4663.6	4827.8	5290.7	5557.0	4850.2
32.5°	4621.3	4636.2	4626.3	4592.7	4532.9	4467.0	4640.0	4791.8	5293.2	5645.3	4841.5
35°	4773.1	4803.0	4819.1	4816.6	4768.1	4653.6	4733.3	4859.0	5352.9	5793.4	4892.5
37.5°	4944.8	4969.7	5039.4	5084.2	5039.4	4906.2	4943.6	5030.7	5484.8	6007.4	5004.5
40°	5111.5	5148.9	5250.9	5390.3	5372.8	5255.9	5264.6	5321.8	5717.5	6326.0	5223.5
42.5°	5285.7	5330.5	5508.5	5715.0	5756.1	5665.2	5688.9	5739.9	6048.5	6767.7	5599.3
45°	5509.7	5563.2	5782.2	6039.8	6201.5	6145.5	6212.7	6237.6	6491.5	7342.6	6094.5
47.5°	5798.4	5860.6	6130.6	6451.6	6680.6	6731.6	6848.6	6833.6	7040.2	8023.2	6736.6
50°	6284.9	6319.7	6574.8	6902.1	7216.9	7447.1	7574.0	7597.6	7720.8	8685.1	7454.5
52.5°	6863.5	6894.6	7078.8	7364.9	7759.4	8247.2	8560.7	8483.6	8513.4	9491.4	8294.4
55°	7514.3	7566.5	7683.5	7873.9	8385.3	9103.2	9732.8	9751.5	9420.5	10262.9	9099.5
57.5°	8018.2	8106.5	8306.9	8578.1	9226.4	10055.1	10901.2	10913.7	10490.6	11086.6	9987.9
60°	7764.4	7868.9	8326.8	8987.5	10330.1	11716.2	12297.3	12226.4	11532.1	12024.8	11071.7
62.5°	6669.4	6688.1	7353.8	8386.5	10669.8	13938.5	14375.3	14075.4	12921.9	13214.4	12172.9
65°	4316.4	4438.4	4966.0	6413.1	9553.7	15171.6	18016.1	17323.0	14870.5	14564.4	13094.9
67.5°	2725.0	2693.9	2912.9	3661.9	6571.1	14085.4	21123.1	21013.6	17418.8	15416.7	12874.7
69°	2259.6	2294.5	2369.1	2807.1	4521.7	12026.1	21490.1	22246.7	18654.4	15349.6	12074.6
70°	2049.3	2065.5	2143.9	2488.6	3489.0	10072.5	20887.9	22213.1	19139.7	15068.3	11494.7
72.5°	1626.3	1625.0	1759.4	2070.5	2608.0	5749.9	17151.3	19285.2	18597.2	13759.4	9497.7
75°	1235.6	1255.5	1403.6	1752.0	2402.7	3141.8	11968.8	14851.8	14853.1	10867.6	5926.6
77.5°	890.9	903.4	1076.3	1470.8	2263.4	2547.1	7972.2	10652.4	10014.0	4979.6	1862.7
80°	583.6	591.0	722.9	1164.7	2040.6	2402.7	4727.1	6520.1	4723.3	1321.4	615.9
82.5°	319.8	357.1	441.7	754.0	1637.5	2219.8	2873.1	3299.9	1771.9	588.5	321.0
85°	160.5	170.5	248.9	440.5	1070.1	1836.6	2000.8	1892.6	914.6	292.4	166.7
87.5°	47.3	59.7	103.3	170.5	434.3	956.9	1113.6	999.2	352.1	105.8	34.8
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°	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5	6165.5
2.5°	6114.4	6092.0	5992.5	5902.9	5820.8	5733.7	5660.3	5595.6	5601.8	5603.0	5537.1
5°	5975.1	5924.1	5734.9	5558.2	5408.9	5219.8	5058.0	4953.5	4901.3	4831.6	4856.5
7.5°	5785.9	5687.6	5425.1	5131.4	4856.5	4611.3	4345.1	4162.1	4045.2	3932.0	3946.9
10°	5590.6	5432.6	5050.6	4662.4	4306.5	3914.5	3574.8	3283.7	3067.2	2986.3	2932.8
12.5°	5390.3	5182.5	4697.2	4180.8	3689.3	3220.2	2738.7	2426.4	2187.5	2060.5	2076.7
15°	5207.4	4954.8	4328.9	3699.3	3061.0	2502.3	2022.0	1724.6	1557.9	1523.0	1542.9
17.5°	5038.1	4707.1	3984.2	3231.4	2486.1	1876.4	1519.3	1351.3	1284.1	1265.4	1264.2
20°	4863.9	4496.9	3597.2	2731.2	1937.4	1454.6	1246.8	1168.4	1155.9	1163.4	1164.7
22.5°	4687.2	4236.8	3199.1	2234.7	1542.9	1189.5	1090.0	1068.8	1078.8	1096.2	1098.7
25°	4524.2	4007.9	2815.8	1799.2	1231.8	1045.2	996.7	996.7	1019.1	1045.2	1046.4
27.5°	4389.9	3786.4	2433.8	1428.4	1031.5	940.7	924.5	933.2	964.3	984.2	985.5
30°	4279.1	3579.8	2073.0	1144.7	907.1	857.3	853.6	868.5	890.9	909.6	910.8
32.5°	4195.7	3398.2	1735.8	961.8	821.2	793.9	792.6	803.8	816.3	821.2	826.2
35°	4163.4	3247.6	1427.2	846.1	764.0	746.6	746.6	745.3	750.3	752.8	755.3
37.5°	4189.5	3131.9	1188.3	771.5	721.7	709.2	701.8	694.3	691.8	691.8	693.1
40°	4300.3	3070.9	1010.4	722.9	691.8	673.2	659.5	650.8	642.1	644.5	647.0
42.5°	4535.4	3082.1	889.7	690.6	665.7	639.6	619.7	609.7	603.5	610.9	609.7
45°	4910.0	3194.1	812.5	668.2	639.6	606.0	587.3	577.4	577.4	588.5	592.3
47.5°	5433.8	3408.1	771.5	650.8	619.7	579.8	561.2	553.7	556.2	574.9	576.1
50°	6073.4	3780.2	764.0	642.1	609.7	561.2	540.0	532.6	538.8	558.7	561.2
52.5°	6778.9	4259.2	800.1	643.3	601.0	550.0	522.6	511.4	517.6	533.8	538.8
55°	7615.1	4859.0	893.4	648.3	588.5	543.8	510.2	485.3	492.7	503.9	505.2
57.5°	8468.6	5615.5	1057.6	649.5	578.6	532.6	489.0	456.7	456.7	464.1	467.9
60°	9511.3	6439.2	1274.2	650.8	579.8	516.4	460.4	424.3	419.3	423.1	424.3
62.5°	10546.6	7128.5	1310.2	647.0	592.3	500.2	429.3	392.0	383.2	382.0	379.5
65°	11003.3	7000.4	1073.8	629.6	606.0	490.3	404.4	360.8	345.9	340.9	340.9
67.5°	10259.2	5921.6	807.5	606.0	597.3	480.3	380.8	334.7	317.3	307.3	307.3
69°	9559.9	5267.1	725.4	589.8	574.9	464.1	365.8	321.0	299.9	288.7	284.9
70°	9019.9	4816.6	690.6	576.1	553.7	445.5	354.6	311.1	287.4	275.0	272.5
72.5°	7198.2	3778.9	604.7	523.8	471.6	374.5	314.8	280.0	257.6	243.9	240.1
75°	4148.5	2048.1	501.4	455.4	379.5	291.2	266.3	243.9	226.5	214.0	210.3
77.5°	1276.6	791.4	363.3	359.6	278.7	225.2	212.8	204.1	191.6	177.9	175.4
80°	537.5	403.1	246.4	242.6	185.4	156.8	153.0	151.8	146.8	135.6	131.9
82.5°	294.9	227.7	171.7	149.3	112.0	90.8	94.6	95.8	92.1	80.9	73.4
85°	144.3	124.4	83.4	67.2	51.0	32.4	31.1	37.3	34.8	24.9	27.4
87.5°	28.6	34.8	22.4	10.0	5.0	0.0	0.0	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)