

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: P455794

Luminaire Tested: **GALN-SA7A-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455794  
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-SA7A-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 28956 lumens  
Efficiency: N/A  
Efficacy: 134.7 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

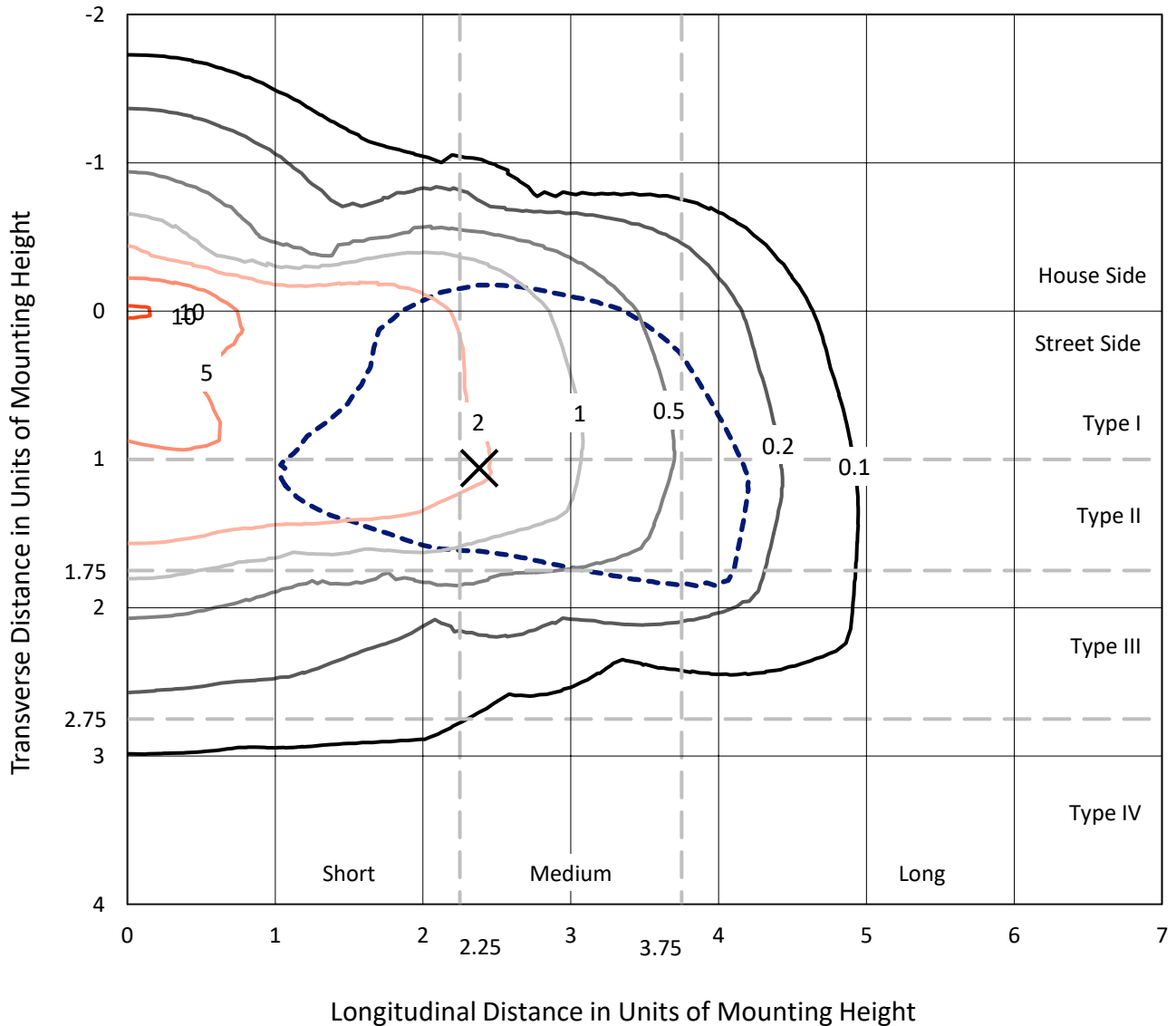
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455794  
 CATALOG NUMBER: GALN-SA7A-730-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

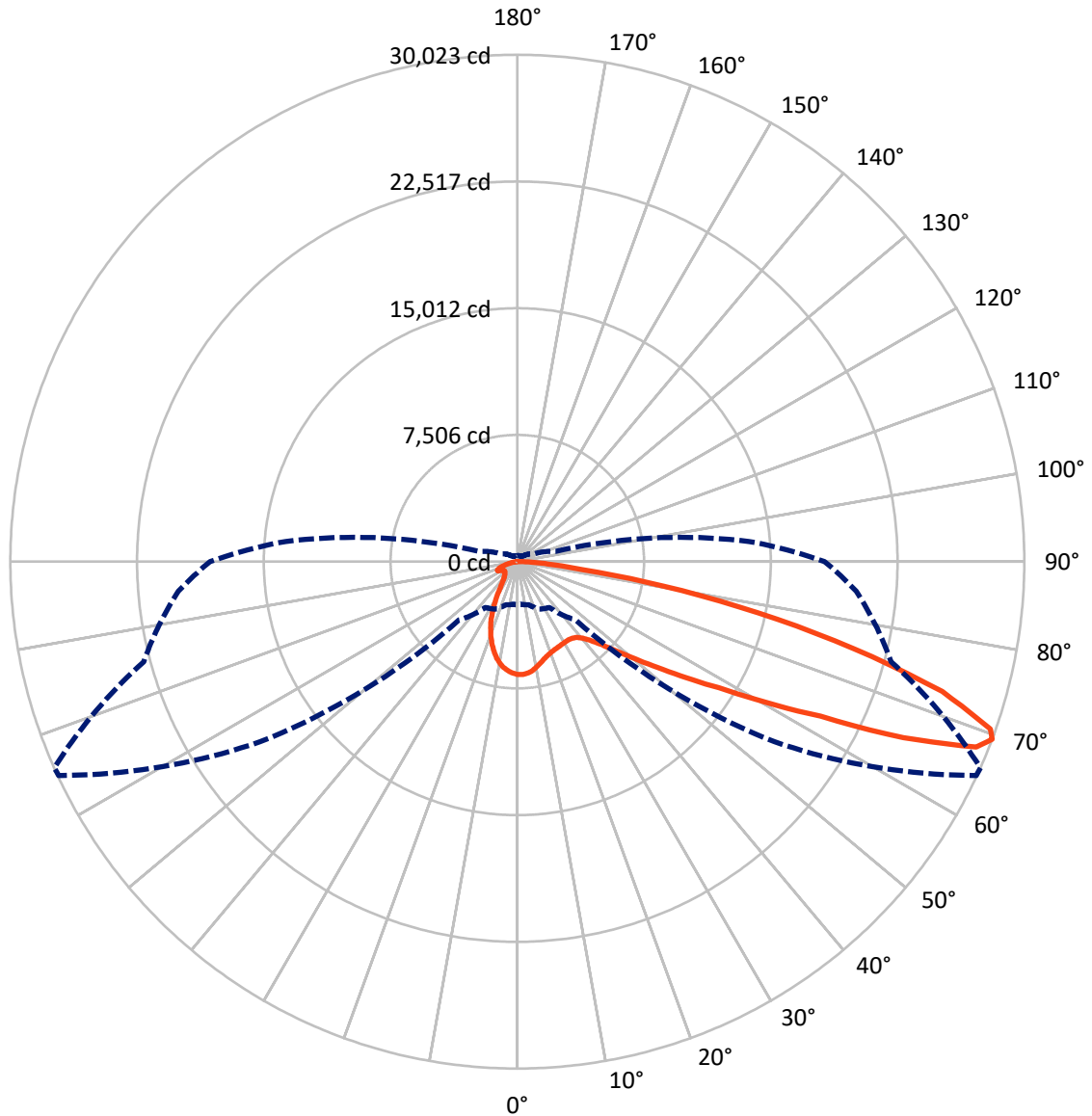
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P455794  
CATALOG NUMBER: GALN-SA7A-730-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455794

CATALOG NUMBER: GALN-SA7A-730-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5445.5	0.0	5445.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	23510.5	0.0	23510.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	28956.0	0.0	28956.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.7	2.0
10°-20°	1377.3	4.8
20°-30°	1875.0	6.5
30°-40°	2519.6	8.7
40°-50°	3762.2	13.0
50°-60°	5984.4	20.7
60°-70°	7360.5	25.4
70°-80°	4789.1	16.5
80°-90°	707.2	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°	28956.0	100.0
0°-180°	28956.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455794

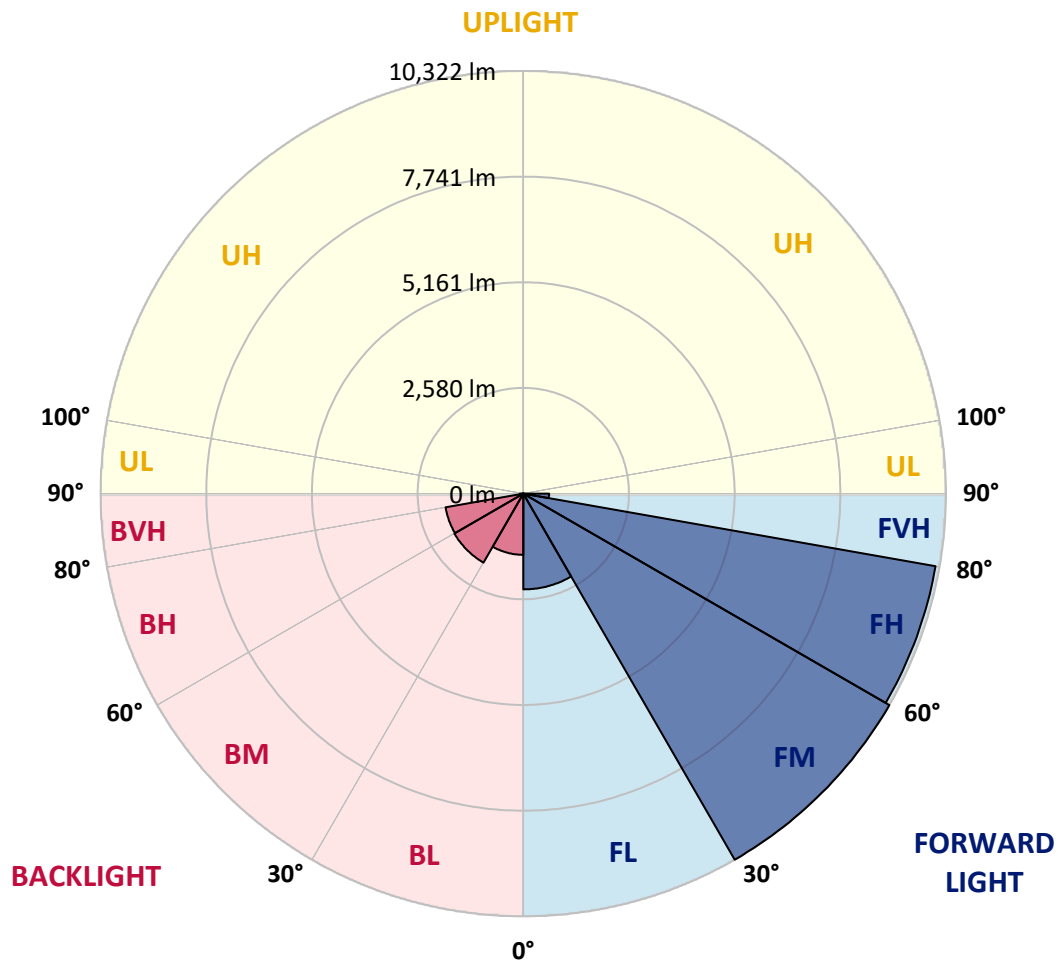
CATALOG NUMBER: GALN-SA7A-730-U-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2338.2	8.1			
FM	(30°-60°)	10321.9	35.6			
FH	(60°-80°)	10221.6	35.3			G4/12000
FVH	(80°-90°)	628.7	2.2			G4/750
BL	(0°-30°)	1494.8	5.2	B3/2500		
BM	(30°-60°)	1944.3	6.7	B2/2500		
BH	(60°-80°)	1928.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	78.5	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





REPORT NUMBER: P455794

CATALOG NUMBER: GALN-SA7A-730-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7
2.5°	6452.6	6478.3	6507.1	6539.2	6600.2	6633.8	6657.9	6685.1	6688.3	6702.8	6691.6
5°	5976.4	6006.8	6050.1	6111.1	6202.5	6345.2	6492.7	6613.0	6627.4	6694.8	6714.0
7.5°	5578.7	5596.3	5631.6	5729.4	5859.3	6018.1	6232.9	6476.7	6512.0	6672.3	6728.4
10°	5254.8	5272.4	5314.1	5415.1	5543.4	5742.3	5978.0	6298.7	6327.6	6603.4	6731.6
12.5°	5012.7	5028.7	5073.6	5173.0	5320.5	5506.5	5766.3	6106.3	6148.0	6512.0	6701.2
15°	4828.2	4858.7	4895.6	4977.4	5132.9	5312.5	5564.3	5929.9	5963.6	6415.7	6680.3
17.5°	4749.7	4764.1	4789.8	4865.1	4979.0	5155.4	5408.7	5792.0	5832.1	6348.4	6675.5
20°	4752.9	4767.3	4772.1	4813.8	4895.6	5047.9	5298.1	5682.9	5731.0	6289.1	6683.5
22.5°	4861.9	4863.5	4845.9	4831.5	4863.5	4990.2	5219.5	5601.2	5657.3	6263.4	6690.0
25°	5030.3	5059.2	5033.5	4966.2	4906.8	4967.8	5189.0	5556.3	5609.2	6226.5	6681.9
27.5°	5302.9	5307.7	5286.9	5195.5	5041.5	4996.6	5176.2	5522.6	5567.5	6199.3	6641.8
30°	5668.5	5654.1	5634.8	5533.8	5291.7	5107.3	5203.5	5492.1	5538.6	6159.2	6593.7
32.5°	6038.9	6083.8	6066.2	5947.5	5633.2	5322.1	5291.7	5488.9	5527.4	6128.7	6540.8
35°	6431.8	6452.6	6536.0	6475.1	6152.8	5670.1	5456.8	5538.6	5569.1	6130.3	6503.9
37.5°	6739.7	6795.8	6991.4	7044.3	6741.3	6130.3	5724.6	5679.7	5692.6	6208.9	6518.4
40°	7111.7	7207.9	7459.6	7676.1	7477.3	6728.4	6180.0	5941.1	5957.1	6398.1	6613.0
42.5°	7583.1	7650.5	7988.8	8282.3	8250.2	7519.0	6731.6	6369.2	6377.3	6774.9	6877.6
45°	8134.7	8231.0	8611.0	9052.0	9127.3	8413.8	7528.6	7017.1	7012.3	7360.2	7371.5
47.5°	8840.3	8899.6	9276.5	9757.5	10062.2	9537.8	8495.5	7947.1	7895.8	8213.3	8121.9
50°	9489.7	9582.7	9868.2	10394.1	11152.6	10854.3	9767.1	9153.0	9032.7	9329.4	9175.4
52.5°	9762.3	9860.1	10100.7	10753.3	12087.5	12557.3	11381.9	10591.4	10390.9	10618.6	10562.5
55°	9289.3	9416.0	9640.5	10434.2	12498.0	14521.6	13559.5	12254.2	12108.3	12010.5	12026.5
57.5°	8017.7	8137.9	8441.0	9316.5	12007.3	15947.2	16668.8	14391.7	14079.0	13628.5	13705.4
60°	6103.1	6178.4	6335.6	7305.7	10552.9	16317.6	20199.7	17093.7	16894.9	15240.0	15294.5
62.5°	4334.4	4419.3	4528.4	5012.7	7725.8	15273.7	22964.2	20866.8	20156.4	16909.3	16856.4
65°	3519.8	3462.0	3593.5	3819.6	4533.2	11837.3	23586.4	26104.0	25125.8	19107.7	18373.3
67.5°	2894.4	2833.4	2963.3	3365.8	3447.6	6871.2	21344.7	29503.5	29307.8	21498.6	19914.3
69°	2562.5	2530.4	2644.2	3102.8	3309.7	4879.6	18594.6	29976.5	30023.0	22908.1	20151.6
70°	2309.1	2321.9	2432.6	2969.7	3247.2	4023.3	15892.6	29323.9	29718.3	23612.1	19895.1
72.5°	1699.7	1727.0	1880.9	2459.8	3187.8	3413.9	9457.7	25613.3	26310.8	23653.8	18200.1
75°	1188.2	1175.4	1311.7	1852.1	3011.4	3383.5	5554.6	19808.5	20599.0	20445.1	15292.9
77.5°	777.7	798.6	907.6	1308.5	2533.6	3357.8	3620.8	14053.4	14566.5	13673.4	9045.5
80°	548.4	546.8	607.7	893.2	1879.3	3226.3	2964.9	8857.9	8728.0	5373.4	2682.7
82.5°	314.3	336.7	407.3	628.6	1257.2	2839.9	2727.6	4236.5	3867.7	1531.4	906.0
85°	174.8	182.8	242.1	380.0	734.4	2139.1	2381.3	1927.5	1818.4	639.8	389.7
87.5°	56.1	60.9	101.0	192.4	333.5	1010.2	1348.6	890.0	821.0	230.9	157.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455794  
 CATALOG NUMBER: GALN-SA7A-730-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7	6686.7
2.5°	6696.4	6715.6	6664.3	6614.6	6569.7	6507.1	6451.0	6404.5	6372.5	6367.6	6351.6
5°	6718.8	6720.4	6622.6	6491.1	6362.8	6221.7	6075.8	5971.6	5873.8	5819.2	5792.0
7.5°	6734.9	6720.4	6544.0	6330.8	6083.8	5827.2	5570.7	5365.4	5206.7	5144.1	5168.2
10°	6728.4	6683.5	6425.4	6083.8	5724.6	5341.4	4972.6	4683.9	4419.3	4283.0	4286.3
12.5°	6693.2	6619.4	6249.0	5806.4	5278.8	4765.7	4201.3	3811.6	3505.3	3324.1	3268.0
15°	6662.7	6534.4	6042.1	5429.6	4773.7	4040.9	3353.0	2871.9	2615.4	2472.7	2471.0
17.5°	6630.6	6452.6	5816.0	5030.3	4193.2	3250.4	2528.8	2161.6	2041.3	2055.7	2031.7
20°	6596.9	6356.4	5580.3	4586.1	3486.1	2424.5	1893.8	1744.6	1778.3	1844.1	1853.7
22.5°	6558.5	6253.8	5326.9	4097.0	2742.0	1824.8	1536.2	1513.7	1600.3	1703.0	1717.4
25°	6499.1	6125.5	5007.8	3585.5	2115.1	1470.4	1345.4	1361.4	1446.4	1533.0	1542.6
27.5°	6415.7	5966.8	4685.5	2947.3	1589.1	1262.0	1229.9	1250.8	1292.4	1345.4	1358.2
30°	6303.5	5787.2	4315.1	2395.7	1273.2	1157.8	1144.9	1156.1	1180.2	1202.7	1209.1
32.5°	6191.3	5614.0	3941.5	1834.4	1135.3	1088.8	1076.0	1076.0	1076.0	1079.2	1080.8
35°	6087.0	5450.4	3540.6	1428.8	1063.1	1034.3	1016.6	997.4	994.2	983.0	983.0
37.5°	6029.3	5301.3	3114.1	1196.2	1010.2	989.4	965.3	933.3	915.6	917.2	914.0
40°	6040.5	5203.5	2726.0	1064.7	966.9	944.5	907.6	870.7	859.5	859.5	856.3
42.5°	6167.2	5171.4	2354.0	995.8	925.2	899.6	853.1	819.4	813.0	811.4	814.6
45°	6459.0	5250.0	2020.5	950.9	890.0	851.5	805.0	774.5	768.1	768.1	766.5
47.5°	7028.3	5504.9	1781.5	922.0	864.3	814.6	766.5	736.0	724.8	721.6	721.6
50°	7913.4	6058.2	1603.5	896.4	832.2	780.9	731.2	695.9	678.3	676.7	675.1
52.5°	9143.4	6920.9	1534.6	877.1	797.0	745.6	691.1	657.4	635.0	630.2	627.0
55°	10581.7	8125.1	1629.2	862.7	760.1	705.6	649.4	614.2	593.3	583.7	582.1
57.5°	12247.8	9571.5	1988.4	843.5	726.4	662.3	607.7	572.5	550.0	538.8	535.6
60°	13743.9	11058.0	2615.4	832.2	697.5	615.8	559.6	527.6	506.7	495.5	493.9
62.5°	15387.5	12475.5	3364.2	862.7	684.7	570.9	514.7	485.9	468.2	457.0	457.0
65°	17143.4	13894.6	3859.7	965.3	704.0	535.6	466.6	442.6	426.5	418.5	416.9
67.5°	18326.8	14385.3	3179.8	1071.2	752.1	497.1	420.1	400.9	391.3	383.2	383.2
69°	18198.5	13764.8	2346.0	1098.4	766.5	477.9	394.5	380.0	367.2	364.0	360.8
70°	17792.8	13057.6	1965.9	1080.8	755.3	460.2	378.4	360.8	349.6	346.4	344.8
72.5°	15847.7	11324.2	1464.0	939.7	643.0	399.3	335.1	319.1	309.5	304.7	304.7
75°	13166.6	9255.6	1143.3	747.2	503.5	336.7	287.0	274.2	266.2	263.0	261.4
77.5°	7379.5	5168.2	821.0	585.3	381.6	272.6	240.5	229.3	221.3	218.1	218.1
80°	2055.7	1476.9	482.7	386.5	259.8	206.9	190.8	182.8	171.6	163.6	168.4
82.5°	774.5	639.8	275.8	232.5	165.2	137.9	133.1	126.7	121.9	110.6	110.6
85°	376.8	311.1	176.4	123.5	91.4	72.2	69.0	65.7	62.5	54.5	56.1
87.5°	129.9	137.9	77.0	44.9	27.3	17.6	14.4	8.0	8.0	8.0	8.0
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)