

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: P455446

Luminaire Tested: **GALN-SA6C-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455446  
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-SA6C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA 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: 30591 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

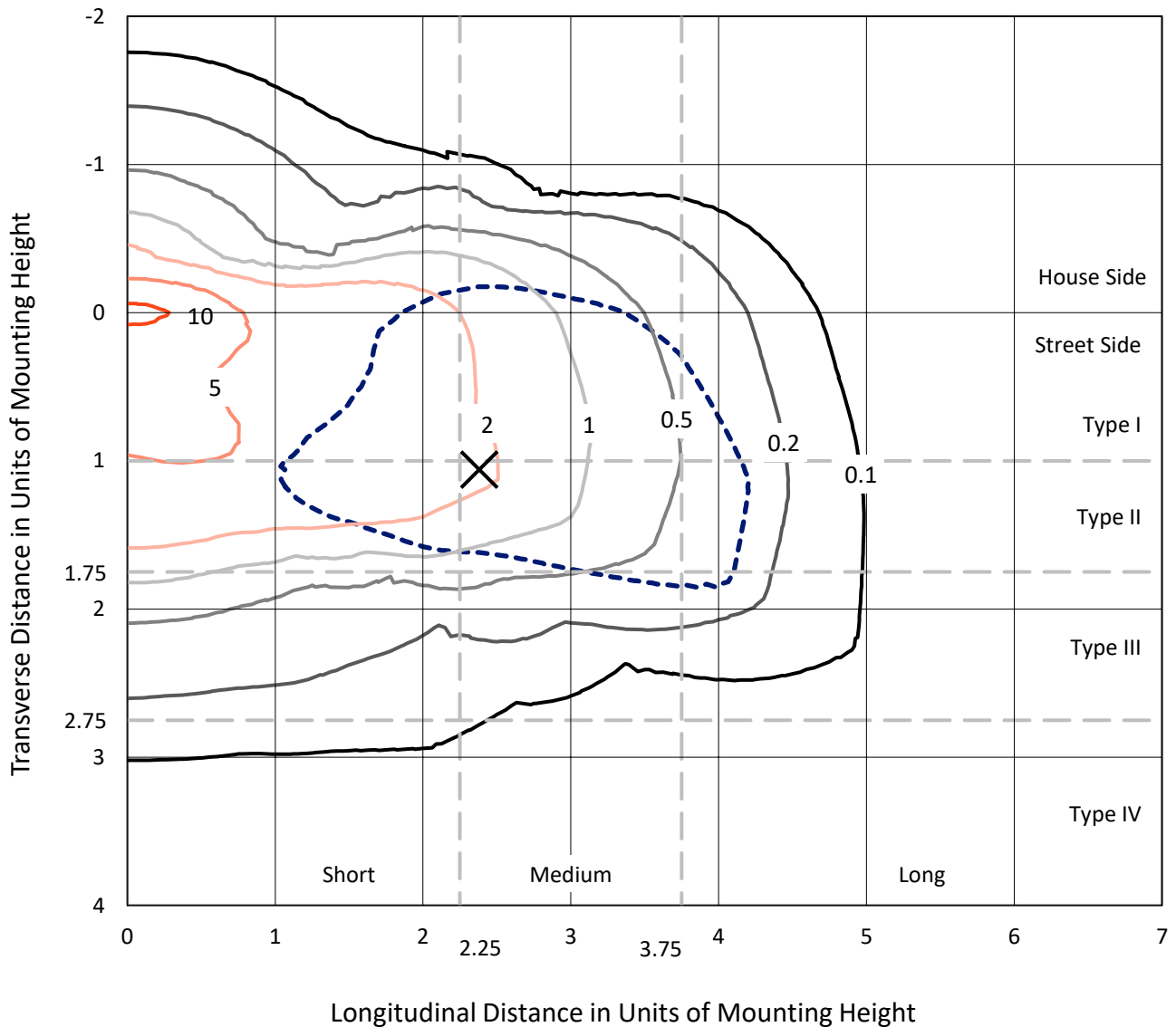
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

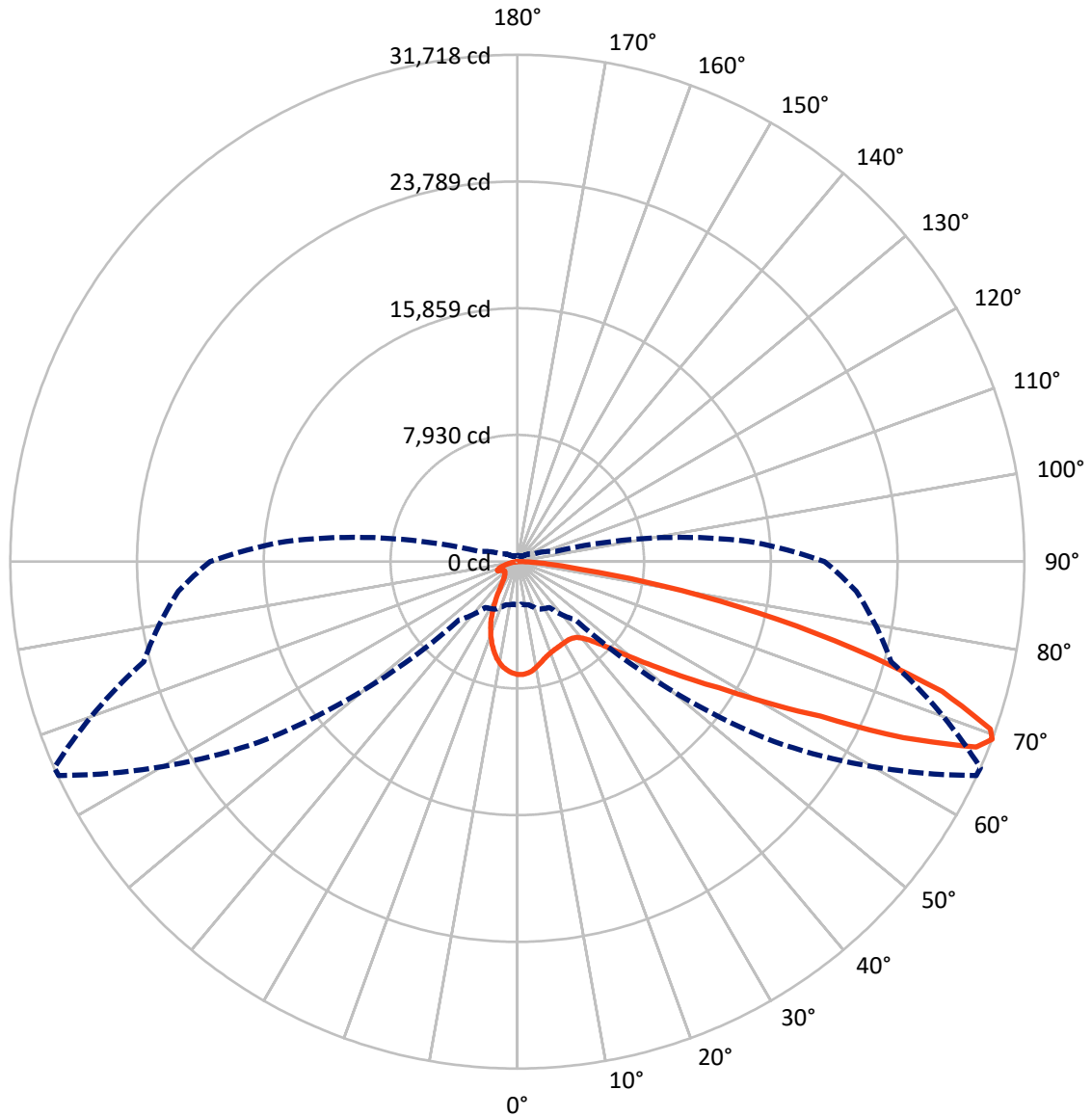
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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
<b>House Side</b>	Lumens	5753.0	0.0	5753.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	24838.0	0.0	24838.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	30591.0	0.0	30591.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	613.5	2.0
10°-20°	1455.1	4.8
20°-30°	1980.9	6.5
30°-40°	2661.9	8.7
40°-50°	3974.6	13.0
50°-60°	6322.3	20.7
60°-70°	7776.1	25.4
70°-80°	5059.5	16.5
80°-90°	747.1	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°	30591.0	100.0
0°-180°	30591.0	100.0

**Coefficient of Utilization**



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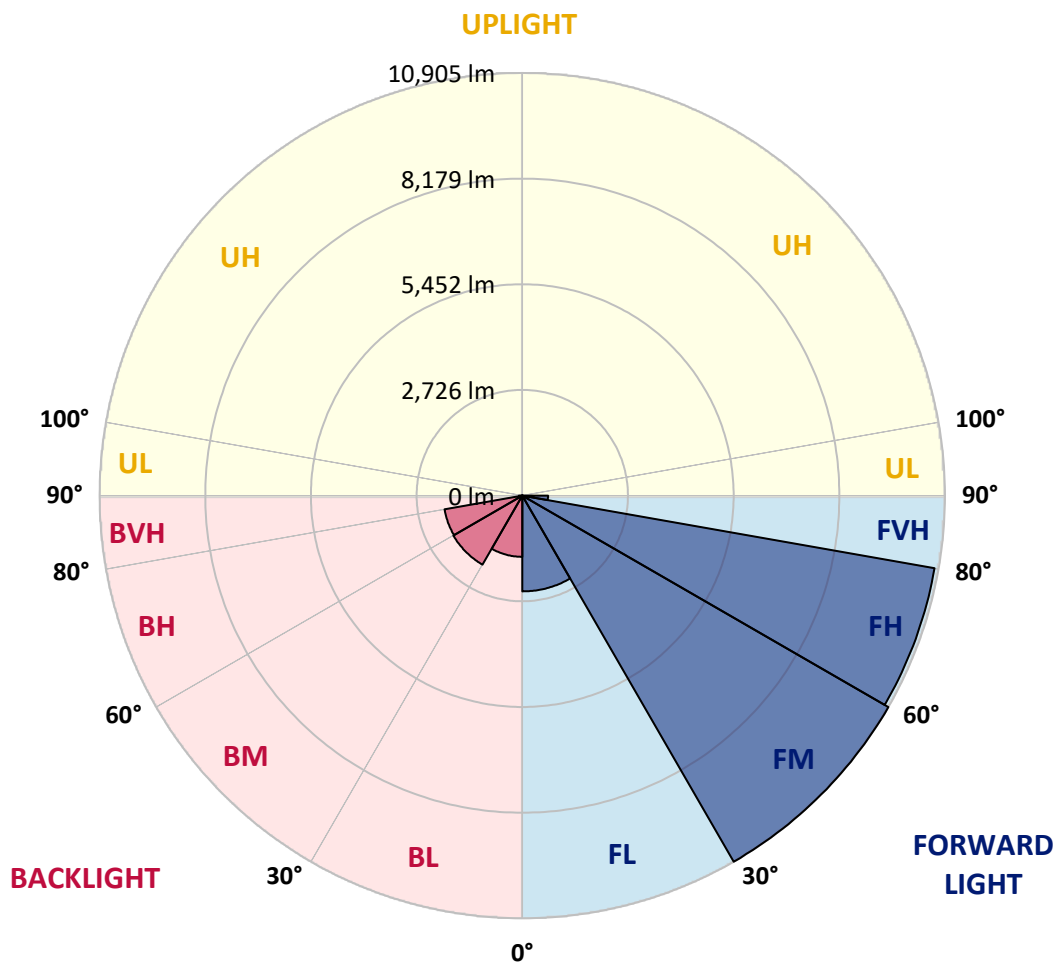
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2470.2	8.1			
FM	(30°-60°)	10904.8	35.6			
FH	(60°-80°)	10798.8	35.3			G4/12000
FVH	(80°-90°)	664.2	2.2			G4/750
BL	(0°-30°)	1579.2	5.2	B3/2500		
BM	(30°-60°)	2054.1	6.7	B2/2500		
BH	(60°-80°)	2036.8	6.7	B3/2500		G3/2500
BVH	(80°-90°)	82.9	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°	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3
2.5°	6817.0	6844.1	6874.6	6908.5	6972.8	7008.4	7033.8	7062.6	7066.0	7081.3	7069.4
5°	6313.8	6346.0	6391.8	6456.1	6552.7	6703.5	6859.3	6986.4	7001.6	7072.8	7093.1
7.5°	5893.7	5912.3	5949.6	6052.9	6190.2	6357.9	6584.9	6842.4	6879.7	7049.1	7108.4
10°	5551.5	5570.1	5614.2	5720.9	5856.4	6066.5	6315.5	6654.3	6684.8	6976.2	7111.7
12.5°	5295.7	5312.6	5360.1	5465.1	5621.0	5817.5	6091.9	6451.1	6495.1	6879.7	7079.6
15°	5100.9	5133.1	5172.0	5258.4	5422.7	5612.5	5878.5	6264.7	6300.3	6778.0	7057.5
17.5°	5017.9	5033.1	5060.2	5139.8	5260.1	5446.5	5714.1	6119.0	6161.4	6706.9	7052.5
20°	5021.3	5036.5	5041.6	5085.6	5172.0	5333.0	5597.2	6003.8	6054.6	6644.2	7060.9
22.5°	5136.4	5138.1	5119.5	5104.3	5138.1	5272.0	5514.2	5917.4	5976.7	6617.1	7067.7
25°	5314.3	5344.8	5317.7	5246.6	5183.9	5248.3	5482.0	5870.0	5925.9	6578.1	7059.2
27.5°	5602.3	5607.4	5585.4	5488.8	5326.2	5278.8	5468.5	5834.4	5881.8	6549.3	7016.9
30°	5988.6	5973.3	5953.0	5846.3	5590.5	5395.6	5497.3	5802.2	5851.4	6507.0	6966.1
32.5°	6379.9	6427.3	6408.7	6283.3	5951.3	5622.7	5590.5	5798.8	5839.5	6474.8	6910.2
35°	6795.0	6817.0	6905.1	6840.7	6500.2	5990.3	5765.0	5851.4	5883.5	6476.5	6871.2
37.5°	7120.2	7179.5	7386.2	7442.1	7121.9	6476.5	6047.9	6000.4	6014.0	6559.5	6886.4
40°	7513.2	7614.9	7880.9	8109.6	7899.5	7108.4	6529.0	6276.6	6293.5	6759.4	6986.4
42.5°	8011.3	8082.5	8439.9	8749.9	8716.0	7943.5	7111.7	6728.9	6737.4	7157.5	7265.9
45°	8594.1	8695.7	9097.2	9563.1	9642.7	8888.8	7953.7	7413.3	7408.2	7775.8	7787.7
47.5°	9339.5	9402.1	9800.3	10308.5	10630.3	10076.4	8975.2	8395.9	8341.6	8677.1	8580.5
50°	10025.6	10123.8	10425.4	10981.0	11782.3	11467.2	10318.6	9669.8	9542.8	9856.2	9693.5
52.5°	10313.6	10416.9	10671.0	11360.5	12770.0	13266.3	12024.6	11189.4	10977.6	11218.2	11158.9
55°	9813.8	9947.6	10184.8	11023.4	13203.7	15341.6	14325.1	12946.2	12792.0	12688.7	12705.6
57.5°	8470.4	8597.5	8917.6	9842.6	12685.3	16847.6	17610.0	15204.4	14874.0	14398.0	14479.3
60°	6447.7	6527.3	6693.3	7718.2	11148.7	17239.0	21340.3	18058.9	17848.8	16100.5	16158.1
62.5°	4579.1	4668.9	4784.1	5295.7	8162.1	16136.1	24260.9	22045.1	21294.6	17864.1	17808.2
65°	3718.5	3657.5	3796.4	4035.3	4789.2	12505.7	24918.2	27577.9	26544.5	20186.7	19410.8
67.5°	3057.8	2993.4	3130.7	3555.9	3642.3	7259.1	22549.9	31169.4	30962.7	22712.5	21038.8
69°	2707.1	2673.3	2793.5	3278.0	3496.6	5155.1	19644.5	31669.1	31718.3	24201.6	21289.5
70°	2439.5	2453.0	2569.9	3137.4	3430.5	4250.4	16790.0	30979.6	31396.4	24945.3	21018.4
72.5°	1795.7	1824.5	1987.2	2598.7	3367.8	3606.7	9991.7	27059.5	27796.5	24989.4	19227.8
75°	1255.3	1241.8	1385.8	1956.7	3181.5	3574.5	5868.3	20927.0	21762.1	21599.5	16156.4
77.5°	821.6	843.7	958.8	1382.4	2676.6	3547.4	3825.2	14846.9	15389.0	14445.4	9556.3
80°	579.4	577.7	642.1	943.6	1985.5	3408.5	3132.4	9358.1	9220.9	5676.9	2834.2
82.5°	332.0	355.8	430.3	664.1	1328.2	3000.2	2881.6	4475.8	4086.1	1617.8	957.2
85°	184.7	193.1	255.8	401.5	775.9	2259.9	2515.7	2036.3	1921.1	675.9	411.7
87.5°	59.3	64.4	106.7	203.3	352.4	1067.3	1424.7	940.2	867.4	243.9	166.0
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°	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3	7064.3
2.5°	7074.5	7094.8	7040.6	6988.1	6940.6	6874.6	6815.3	6766.2	6732.3	6727.2	6710.2
5°	7098.2	7099.9	6996.5	6857.6	6722.1	6573.0	6418.9	6308.8	6205.4	6147.8	6119.0
7.5°	7115.1	7099.9	6913.5	6688.2	6427.3	6156.3	5885.2	5668.4	5500.7	5434.6	5460.0
10°	7108.4	7060.9	6788.2	6427.3	6047.9	5643.0	5253.3	4948.4	4668.9	4524.9	4528.3
12.5°	7071.1	6993.2	6601.8	6134.3	5576.9	5034.8	4438.5	4026.8	3703.3	3511.8	3452.5
15°	7038.9	6903.4	6383.3	5736.2	5043.3	4269.1	3542.3	3034.1	2763.0	2612.3	2610.6
17.5°	7005.0	6817.0	6144.4	5314.3	4430.0	3433.9	2671.6	2283.6	2156.6	2171.8	2146.4
20°	6969.4	6715.3	5895.4	4845.1	3682.9	2561.4	2000.7	1843.2	1878.7	1948.2	1958.4
22.5°	6928.8	6606.9	5627.7	4328.4	2896.9	1927.9	1622.9	1599.2	1690.7	1799.1	1814.4
25°	6866.1	6471.4	5290.6	3788.0	2234.5	1553.5	1421.3	1438.3	1528.1	1619.5	1629.7
27.5°	6778.0	6303.7	4950.1	3113.7	1678.8	1333.2	1299.4	1321.4	1365.4	1421.3	1434.9
30°	6659.4	6113.9	4558.8	2531.0	1345.1	1223.1	1209.6	1221.4	1246.8	1270.6	1277.3
32.5°	6540.8	5931.0	4164.0	1938.0	1199.4	1150.3	1136.7	1136.7	1136.7	1140.1	1141.8
35°	6430.7	5758.2	3740.5	1509.4	1123.2	1092.7	1074.0	1053.7	1050.3	1038.5	1038.5
37.5°	6369.7	5600.6	3289.9	1263.8	1067.3	1045.2	1019.8	986.0	967.3	969.0	965.6
40°	6381.6	5497.3	2879.9	1124.9	1021.5	997.8	958.8	919.9	908.0	908.0	904.6
42.5°	6515.4	5463.4	2486.9	1052.0	977.5	950.4	901.3	865.7	858.9	857.2	860.6
45°	6823.8	5546.4	2134.5	1004.6	940.2	899.6	850.4	818.2	811.5	811.5	809.8
47.5°	7425.2	5815.8	1882.1	974.1	913.1	860.6	809.8	777.6	765.7	762.3	762.3
50°	8360.3	6400.2	1694.1	947.0	879.2	825.0	772.5	735.2	716.6	714.9	713.2
52.5°	9659.6	7311.6	1621.2	926.7	842.0	787.7	730.1	694.6	670.9	665.8	662.4
55°	11179.2	8583.9	1721.2	911.4	803.0	745.4	686.1	648.8	626.8	616.6	615.0
57.5°	12939.4	10112.0	2100.7	891.1	767.4	699.7	642.1	604.8	581.1	569.2	565.8
60°	14520.0	11682.4	2763.0	879.2	736.9	650.5	591.2	557.4	535.3	523.5	521.8
62.5°	16256.4	13179.9	3554.2	911.4	723.4	603.1	543.8	513.3	494.7	482.8	482.8
65°	18111.4	14679.2	4077.6	1019.8	743.7	565.8	493.0	467.6	450.6	442.2	440.5
67.5°	19361.6	15197.6	3359.4	1131.6	794.5	525.2	443.8	423.5	413.4	404.9	404.9
69°	19226.1	14542.0	2478.4	1160.4	809.8	504.8	416.7	401.5	387.9	384.6	381.2
70°	18797.5	13794.9	2076.9	1141.8	797.9	486.2	399.8	381.2	369.3	365.9	364.2
72.5°	16742.6	11963.6	1546.7	992.7	679.3	421.8	354.1	337.1	327.0	321.9	321.9
75°	13910.1	9778.2	1207.9	789.4	531.9	355.8	303.2	289.7	281.2	277.8	276.1
77.5°	7796.2	5460.0	867.4	618.3	403.2	288.0	254.1	242.3	233.8	230.4	230.4
80°	2171.8	1560.2	509.9	408.3	274.4	218.5	201.6	193.1	181.3	172.8	177.9
82.5°	818.2	675.9	291.4	245.6	174.5	145.7	140.6	133.8	128.8	116.9	116.9
85°	398.1	328.7	186.3	130.4	96.6	76.2	72.8	69.5	66.1	57.6	59.3
87.5°	137.2	145.7	81.3	47.4	28.8	18.6	15.2	8.5	8.5	8.5	8.5
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)