

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: P457652

Luminaire Tested: **GALN-SA9A-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457652  
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-SA9A-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA 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: 37423 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

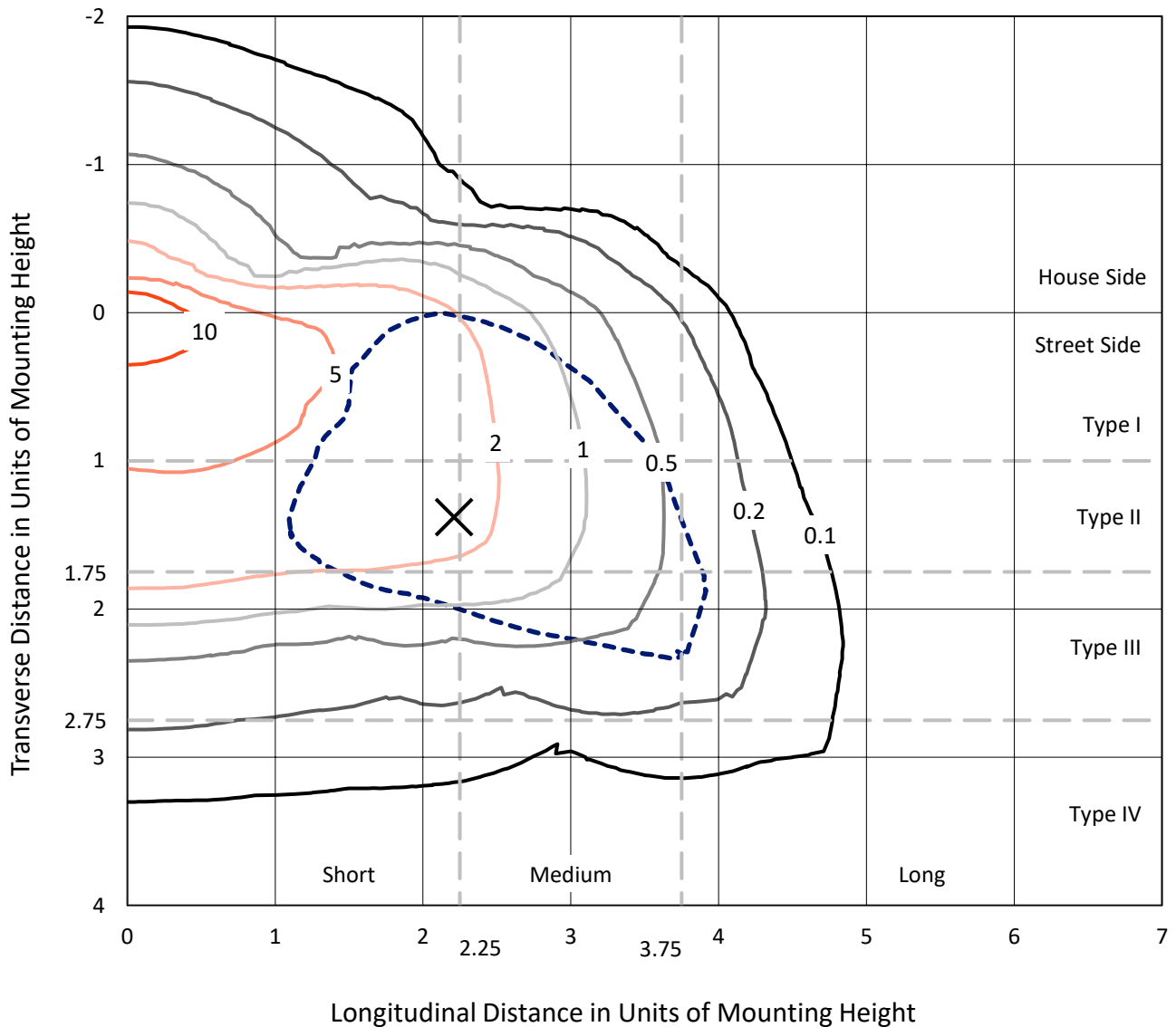
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

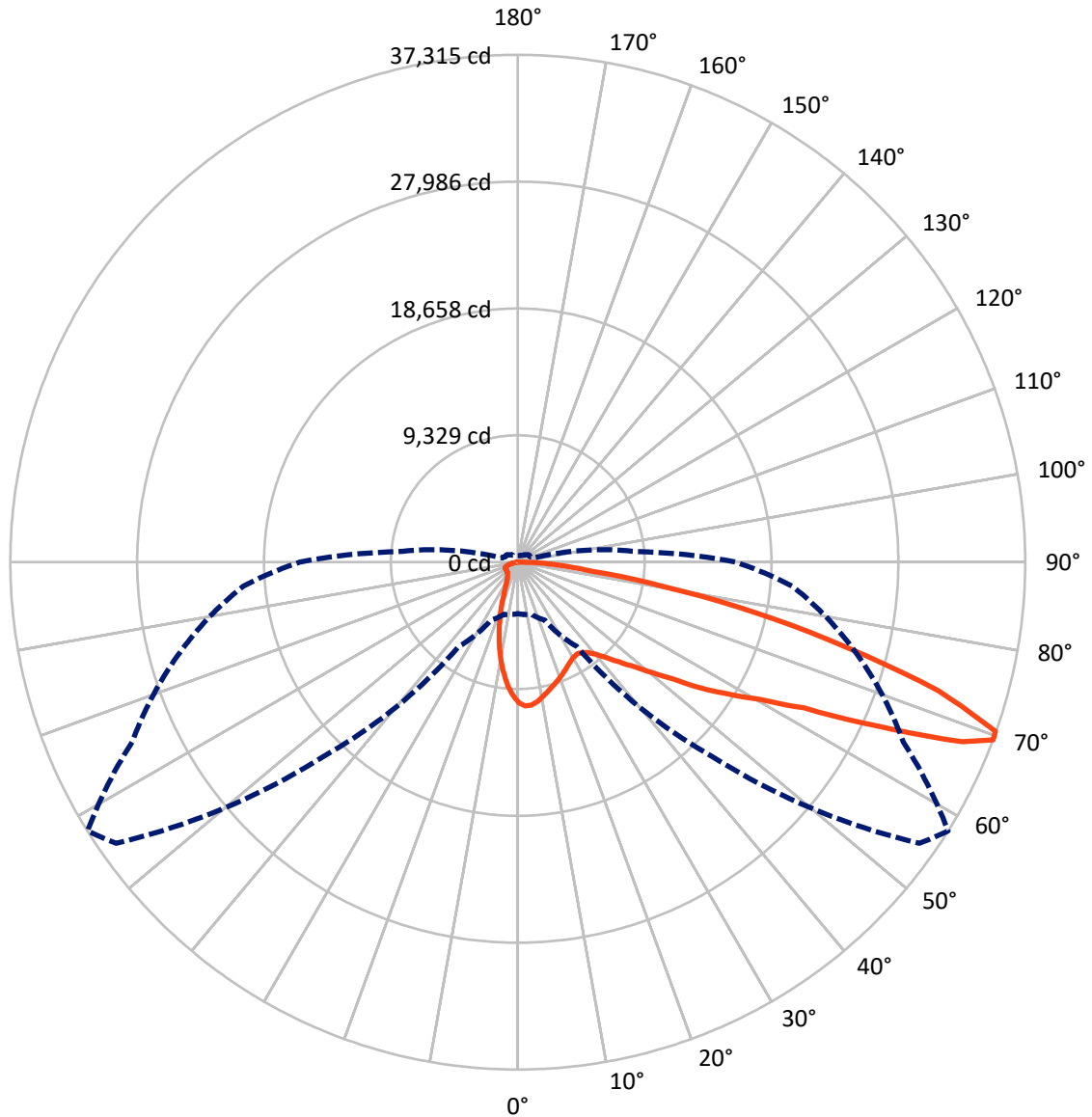
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	5484.3	0.0	5484.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	31938.7	0.0	31938.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	37423.0	0.0	37423.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.2	2.3
10°-20°	1928.5	5.2
20°-30°	2491.6	6.7
30°-40°	3236.1	8.6
40°-50°	4704.9	12.6
50°-60°	7507.4	20.1
60°-70°	10029.0	26.8
70°-80°	5781.3	15.4
80°-90°	865.9	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°	37423.0	100.0
0°-180°	37423.0	100.0



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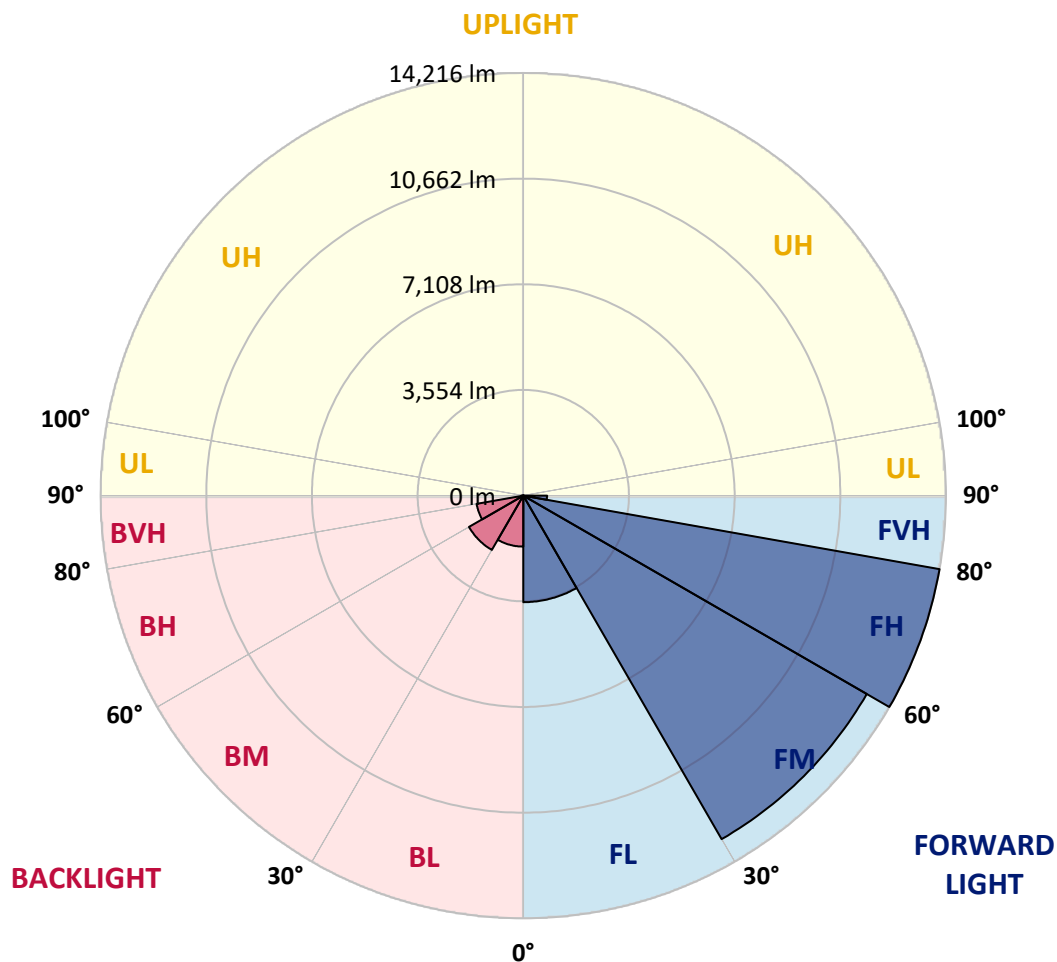
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3584.2	9.6			
FM	(30°-60°)	13339.4	35.6			
FH	(60°-80°)	14215.6	38.0			G5
FVH	(80°-90°)	799.6	2.1			G5
BL	(0°-30°)	1714.2	4.6	B3/2500		
BM	(30°-60°)	2109.1	5.6	B2/2500		
BH	(60°-80°)	1594.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	66.3	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5
2.5°	10725.6	10754.8	10746.4	10736.0	10719.3	10673.4	10598.2	10585.7	10537.7	10435.4	10308.1
5°	10560.7	10585.7	10587.8	10602.4	10623.3	10614.9	10560.7	10554.4	10483.4	10345.7	10132.8
7.5°	9995.1	10028.5	10101.5	10182.9	10256.0	10324.8	10341.5	10352.0	10308.1	10149.5	9865.7
10°	9358.5	9391.9	9425.3	9546.3	9725.8	9897.0	10038.9	10057.7	10068.1	9922.0	9575.6
12.5°	8653.1	8721.9	8792.9	8972.4	9212.4	9481.6	9732.1	9771.8	9842.7	9732.1	9325.1
15°	8054.1	8125.0	8227.3	8388.0	8678.1	9066.3	9419.0	9483.7	9623.6	9567.2	9091.4
17.5°	7638.7	7663.8	7734.8	7918.4	8231.5	8640.5	9112.2	9241.6	9464.9	9450.3	8891.0
20°	7311.1	7342.4	7386.2	7498.9	7824.5	8256.5	8826.3	8993.3	9295.9	9346.0	8692.7
22.5°	7173.3	7196.3	7190.0	7250.5	7471.8	7905.9	8536.2	8734.5	9145.6	9275.0	8509.1
25°	7181.7	7202.5	7171.2	7156.6	7288.1	7597.0	8233.6	8486.1	9024.6	9227.0	8342.1
27.5°	7321.5	7336.1	7277.7	7219.2	7229.7	7405.0	7983.1	8262.8	8922.3	9247.9	8202.3
30°	7509.3	7536.5	7498.9	7427.9	7350.7	7359.1	7822.4	8097.9	8874.3	9320.9	8135.5
32.5°	7751.4	7776.5	7759.8	7703.4	7603.3	7492.6	7782.8	8037.4	8878.5	9469.1	8120.9
35°	8006.1	8056.2	8083.3	8079.1	7997.7	7805.7	7939.3	8150.1	8978.7	9717.5	8206.4
37.5°	8294.1	8335.8	8452.7	8527.8	8452.7	8229.4	8292.0	8438.1	9199.9	10076.5	8394.3
40°	8573.8	8636.4	8807.5	9041.3	9012.1	8815.9	8830.5	8926.5	9590.2	10610.8	8761.6
42.5°	8866.0	8941.1	9239.5	9586.0	9654.9	9502.5	9542.2	9627.7	10145.3	11351.7	9391.9
45°	9241.6	9331.4	9698.7	10130.7	10402.1	10308.1	10420.8	10462.6	10888.3	12315.9	10222.6
47.5°	9725.8	9830.2	10283.1	10821.6	11205.6	11291.2	11487.3	11462.3	11808.7	13457.6	11299.5
50°	10541.9	10600.3	11028.2	11577.1	12105.1	12491.2	12704.1	12743.8	12950.4	14567.9	12503.8
52.5°	11512.4	11564.6	11873.4	12353.5	13015.1	13833.2	14359.2	14229.8	14279.9	15920.3	13912.5
55°	12603.9	12691.6	12887.8	13207.1	14064.9	15269.1	16325.2	16356.5	15801.4	17214.3	15262.9
57.5°	13449.2	13597.4	13933.4	14388.4	15475.8	16865.8	18285.0	18305.9	17596.2	18596.0	16753.1
60°	13023.4	13198.8	13966.8	15075.0	17327.0	19652.0	20626.7	20507.7	19343.1	20169.6	18570.9
62.5°	11186.8	11218.1	12334.7	14067.0	17896.8	23379.6	24112.1	23609.2	21674.4	22164.9	20418.0
65°	7240.1	7444.6	8329.6	10756.9	16024.7	25447.9	30219.0	29056.5	24942.8	24429.4	21964.5
67.5°	4570.7	4518.5	4885.9	6142.3	11021.9	23625.8	35430.4	35246.8	29217.2	25859.0	21595.1
69°	3790.2	3848.6	3973.8	4708.5	7584.5	20171.7	36046.1	37315.1	31289.6	25746.3	20253.1
70°	3437.4	3464.6	3596.1	4174.2	5852.2	16895.0	35036.0	37258.7	32103.6	25274.6	19280.5
72.5°	2727.8	2725.7	2951.1	3472.9	4374.5	9644.4	28768.4	32347.8	31193.6	23079.0	15930.8
75°	2072.5	2105.9	2354.2	2938.6	4030.2	5269.9	20075.7	24911.5	24913.6	18228.6	9940.8
77.5°	1494.4	1515.2	1805.3	2466.9	3796.4	4272.3	13372.0	17867.6	16796.9	8352.5	3124.4
80°	978.8	991.4	1212.6	1953.5	3422.8	4030.2	7928.9	10936.3	7922.6	2216.5	1033.1
82.5°	536.4	599.0	740.9	1264.8	2746.6	3723.4	4819.1	5535.0	2972.0	987.2	538.5
85°	269.2	285.9	417.4	738.8	1794.9	3080.5	3356.0	3174.5	1534.0	490.5	279.7
87.5°	79.3	100.2	173.2	285.9	728.4	1605.0	1867.9	1675.9	590.6	177.4	58.4
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°	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5	10341.5
2.5°	10256.0	10218.4	10051.4	9901.2	9763.4	9617.3	9494.2	9385.6	9396.1	9398.2	9287.5
5°	10022.2	9936.6	9619.4	9323.0	9072.6	8755.3	8484.0	8308.7	8221.0	8104.2	8145.9
7.5°	9705.0	9540.1	9099.7	8607.2	8145.9	7734.8	7288.1	6981.3	6785.1	6595.2	6620.2
10°	9377.3	9112.2	8471.5	7820.3	7223.4	6566.0	5996.2	5507.8	5144.7	5009.0	4919.3
12.5°	9041.3	8692.7	7878.8	7012.6	6188.2	5401.4	4593.7	4069.8	3669.1	3456.2	3483.4
15°	8734.5	8310.8	7261.0	6204.9	5134.2	4197.1	3391.5	2892.7	2613.0	2554.6	2588.0
17.5°	8450.6	7895.5	6682.9	5420.2	4170.0	3147.3	2548.3	2266.6	2153.9	2122.6	2120.5
20°	8158.4	7542.7	6033.8	4581.2	3249.6	2439.8	2091.3	1959.8	1938.9	1951.4	1953.5
22.5°	7862.1	7106.5	5365.9	3748.4	2588.0	1995.3	1828.3	1792.8	1809.5	1838.7	1842.9
25°	7588.7	6722.5	4723.1	3017.9	2066.2	1753.2	1671.8	1671.8	1709.3	1753.2	1755.2
27.5°	7363.3	6351.0	4082.3	2396.0	1730.2	1577.8	1550.7	1565.3	1617.5	1650.9	1653.0
30°	7177.5	6004.6	3477.1	1920.1	1521.5	1438.0	1431.7	1456.8	1494.4	1525.7	1527.7
32.5°	7037.7	5699.8	2911.5	1613.3	1377.5	1331.6	1329.5	1348.3	1369.1	1377.5	1385.8
35°	6983.4	5447.3	2393.9	1419.2	1281.5	1252.3	1252.3	1250.2	1258.5	1262.7	1266.9
37.5°	7027.2	5253.2	1993.2	1294.0	1210.5	1189.6	1177.1	1164.6	1160.4	1160.4	1162.5
40°	7213.0	5150.9	1694.7	1212.6	1160.4	1129.1	1106.2	1091.5	1076.9	1081.1	1085.3
42.5°	7607.4	5169.7	1492.3	1158.3	1116.6	1072.8	1039.4	1022.7	1012.2	1024.8	1022.7
45°	8235.7	5357.6	1362.9	1120.8	1072.8	1016.4	985.1	968.4	968.4	987.2	993.5
47.5°	9114.3	5716.5	1294.0	1091.5	1039.4	972.6	941.3	928.8	932.9	964.2	966.3
50°	10187.1	6340.6	1281.5	1076.9	1022.7	941.3	905.8	893.3	903.7	937.1	941.3
52.5°	11370.5	7144.1	1342.0	1079.0	1008.1	922.5	876.6	857.8	868.2	895.4	903.7
55°	12773.0	8150.1	1498.5	1087.4	987.2	912.1	855.7	814.0	826.5	845.3	847.4
57.5°	14204.7	9419.0	1774.0	1089.5	970.5	893.3	820.2	766.0	766.0	778.5	784.7
60°	15953.7	10800.7	2137.2	1091.5	972.6	866.1	772.2	711.7	703.3	709.6	711.7
62.5°	17690.2	11956.9	2197.7	1085.3	993.5	839.0	720.0	657.4	642.8	640.7	636.6
65°	18456.1	11742.0	1801.2	1056.1	1016.4	822.3	678.3	605.3	580.2	571.9	571.9
67.5°	17208.0	9932.5	1354.5	1016.4	1001.8	805.6	638.6	561.4	532.2	515.5	515.5
69°	16035.1	8834.6	1216.8	989.3	964.2	778.5	613.6	538.5	503.0	484.2	477.9
70°	15129.3	8079.1	1158.3	966.3	928.8	747.2	594.8	521.8	482.1	461.2	457.1
72.5°	12073.8	6338.5	1014.3	878.7	791.0	628.2	528.0	469.6	432.0	409.1	402.8
75°	6958.4	3435.3	841.1	763.9	636.6	488.4	446.6	409.1	379.9	359.0	352.7
77.5°	2141.4	1327.4	609.4	603.2	467.5	377.8	356.9	342.3	321.4	298.5	294.3
80°	901.6	676.2	413.2	407.0	311.0	263.0	256.7	254.6	246.3	227.5	221.2
82.5°	494.6	381.9	288.0	250.5	187.8	152.4	158.6	160.7	154.4	135.7	123.1
85°	242.1	208.7	139.8	112.7	85.6	54.3	52.2	62.6	58.4	41.7	45.9
87.5°	48.0	58.4	37.6	16.7	8.3	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)