

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: P457393

Luminaire Tested: **GALN-SA8D-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51137 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

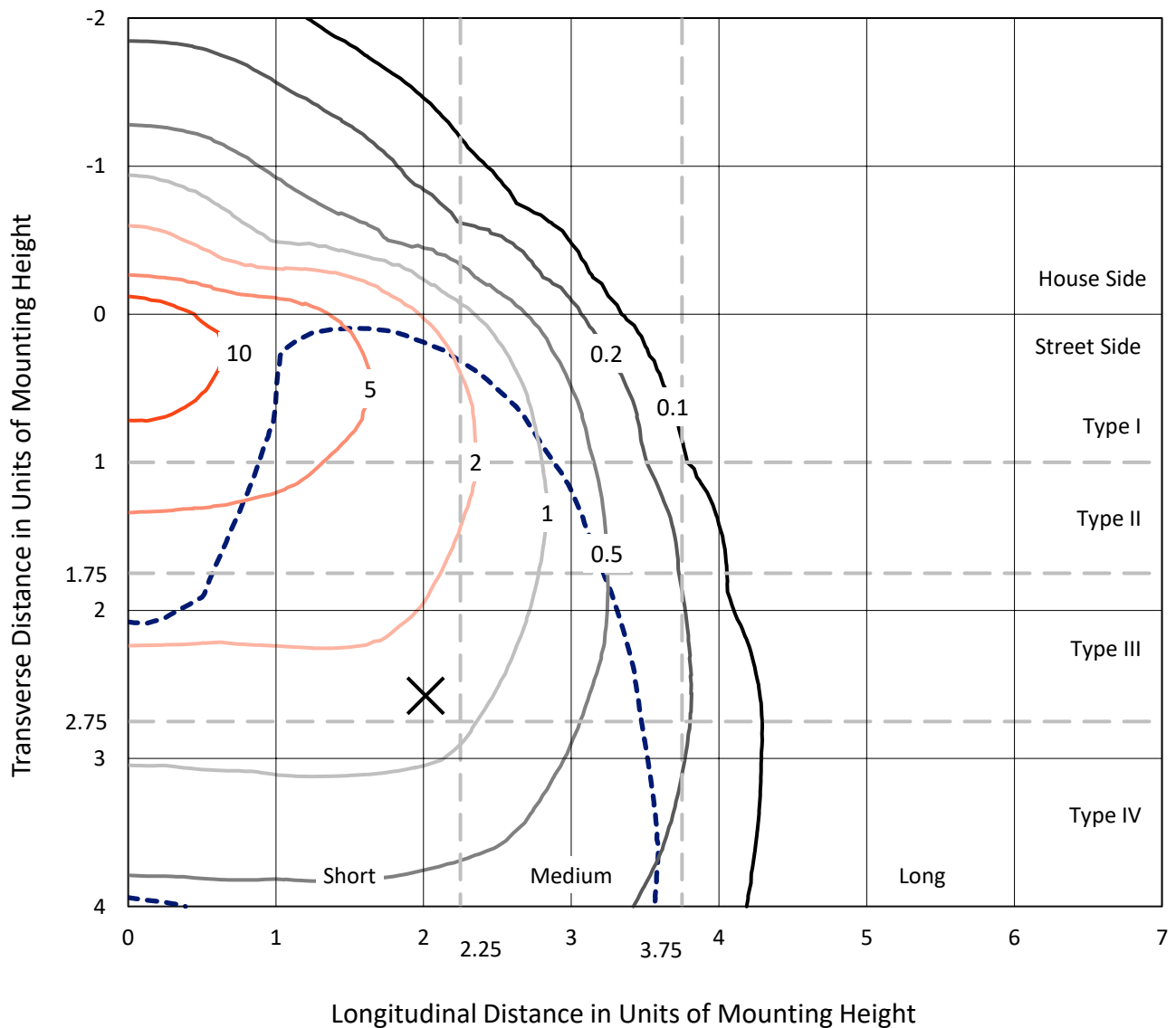
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

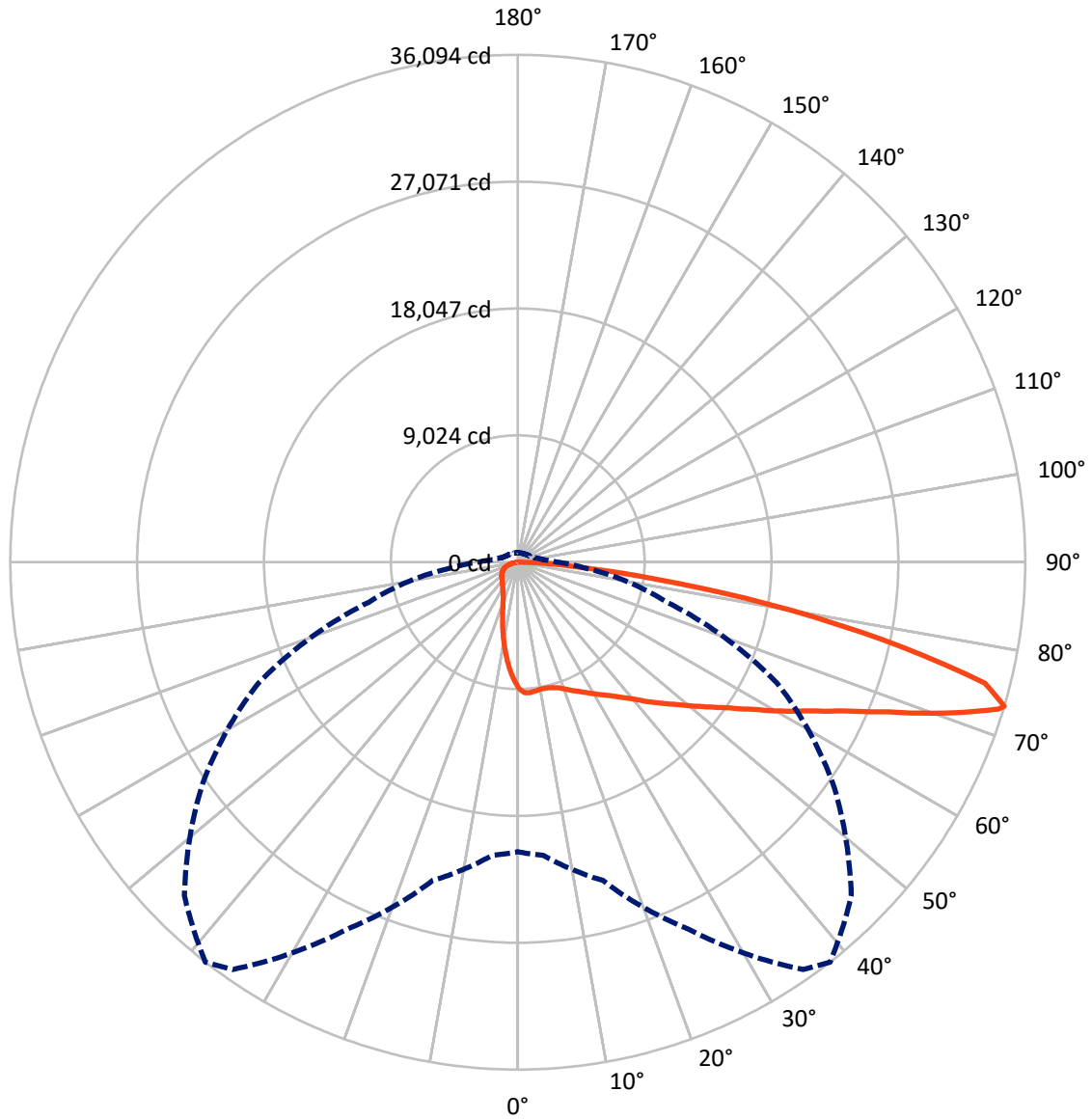
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6874.3	0.0	6874.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	44262.7	0.0	44262.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	51137.0	0.0	51137.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.2	1.5
10°-20°	2010.9	3.9
20°-30°	3131.4	6.1
30°-40°	4593.1	9.0
40°-50°	6813.3	13.3
50°-60°	9653.1	18.9
60°-70°	12245.2	23.9
70°-80°	10193.2	19.9
80°-90°	1712.6	3.3
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°	51137.0	100.0
0°-180°	51137.0	100.0

**Coefficient of Utilization**



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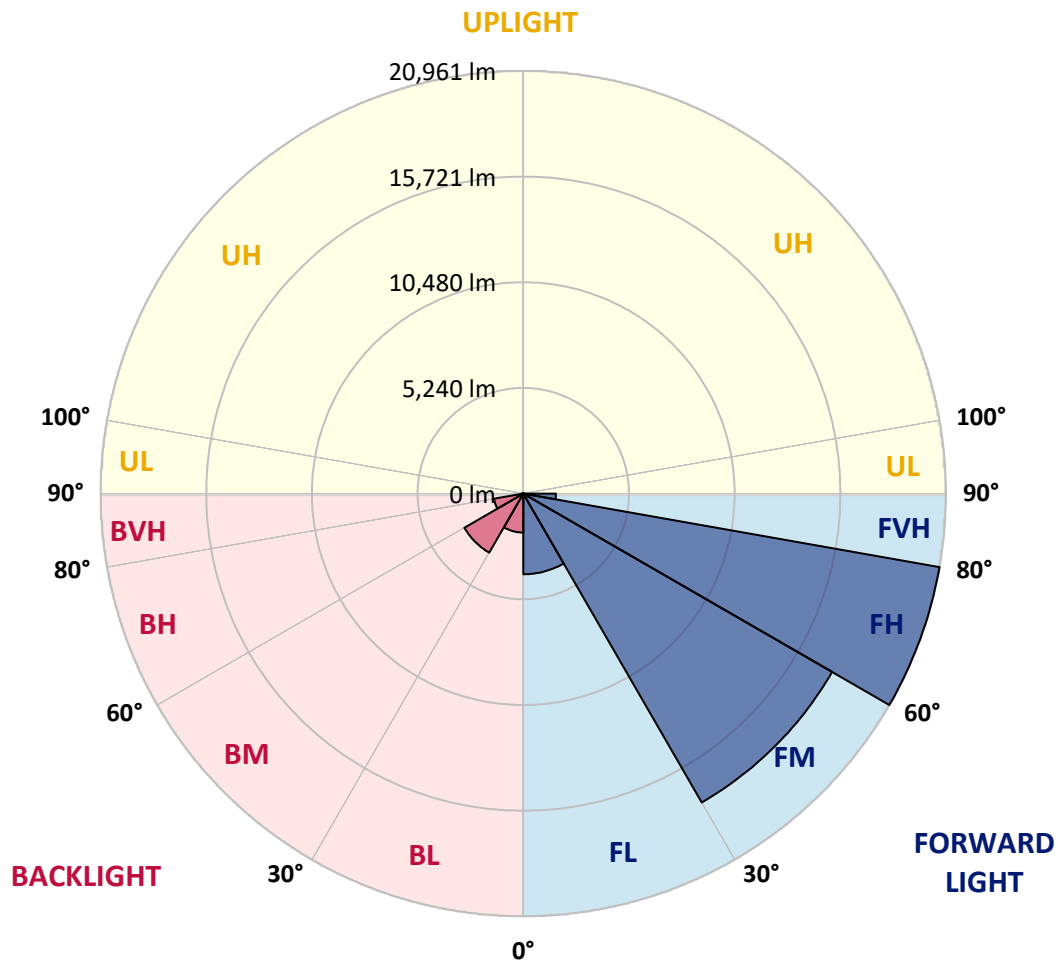
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3997.5	7.8			
FM	(30°-60°)	17684.6	34.6			
FH	(60°-80°)	20960.8	41.0			G5
FVH	(80°-90°)	1619.7	3.2			G5
BL	(0°-30°)	1929.0	3.8	B3/2500		
BM	(30°-60°)	3374.9	6.6	B3/5000		
BH	(60°-80°)	1477.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	92.9	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9
2.5°	9344.9	9391.1	9368.0	9336.2	9316.0	9295.8	9266.9	9183.2	9116.7	9044.5	8931.9
5°	9414.2	9443.1	9422.8	9382.4	9336.2	9316.0	9261.1	9151.4	9044.5	8923.3	8755.8
7.5°	9373.8	9385.3	9362.2	9313.1	9272.7	9235.1	9171.6	9050.3	8920.4	8773.1	8553.6
10°	9229.4	9272.7	9272.7	9232.3	9191.8	9171.6	9108.1	8992.6	8874.2	8706.7	8446.8
12.5°	9111.0	9157.2	9194.7	9183.2	9180.3	9180.3	9131.2	9044.5	8905.9	8747.1	8438.1
15°	9030.1	9085.0	9165.8	9212.0	9240.9	9249.6	9229.4	9154.3	9012.8	8828.0	8472.8
17.5°	9012.8	9079.2	9226.5	9327.6	9402.6	9399.7	9394.0	9290.0	9134.1	8943.5	8516.1
20°	9090.8	9177.4	9382.4	9541.2	9651.0	9630.8	9599.0	9463.3	9281.3	9067.7	8556.5
22.5°	9324.7	9414.2	9639.4	9812.7	9919.5	9919.5	9824.3	9645.2	9451.7	9212.0	8611.4
25°	9659.6	9757.8	9997.5	10173.7	10222.8	10185.2	10089.9	9873.3	9651.0	9420.0	8726.9
27.5°	10069.7	10188.1	10410.5	10557.7	10543.3	10514.4	10416.2	10139.0	9916.7	9705.9	8923.3
30°	10580.9	10667.5	10898.5	10933.2	10881.2	10875.4	10736.8	10459.6	10251.6	10089.9	9203.4
32.5°	11063.1	11141.1	11325.9	11340.3	11247.9	11259.5	11129.5	10875.4	10757.0	10699.2	9674.1
35°	11574.2	11614.7	11773.5	11756.2	11695.5	11686.9	11634.9	11392.3	11429.9	11533.8	10341.2
37.5°	12001.6	12082.5	12172.0	12186.5	12183.6	12212.4	12247.1	12131.6	12348.2	12674.5	11216.2
40°	12394.4	12463.7	12596.5	12642.7	12755.4	12813.1	12931.5	12934.4	13434.0	13971.1	12293.3
42.5°	12660.1	12778.5	13026.8	13110.6	13384.9	13558.2	13734.3	13922.0	14646.9	15337.0	13563.9
45°	12891.1	13047.0	13460.0	13719.9	14092.4	14303.2	14675.7	15068.5	16111.0	17014.8	14854.8
47.5°	13240.5	13379.1	13852.7	14311.9	14875.0	15117.6	15674.9	16261.1	17624.2	18614.7	16090.7
50°	13725.6	13809.4	14291.7	15039.6	15758.7	16070.5	16806.9	17653.0	19241.3	20194.3	17176.6
52.5°	14346.5	14381.2	14765.3	15761.5	16708.7	17095.7	18071.8	19059.4	20656.3	21566.0	18037.1
55°	15080.0	15022.3	15322.6	16526.8	17794.5	18299.9	19348.2	20483.1	22247.5	22674.9	18663.8
57.5°	15804.9	15715.3	15955.0	17456.7	19134.5	19743.8	20965.3	21950.1	23668.3	23711.6	19102.7
60°	16573.0	16506.6	16792.5	18548.3	20777.6	21499.6	22628.7	23471.9	25042.9	24433.6	19172.0
62.5°	17361.4	17254.5	17661.7	19775.6	22628.7	23284.2	24378.7	25089.1	26391.5	24702.1	18504.9
65°	18126.6	18077.5	18707.1	21233.9	24736.8	25481.8	26544.5	27026.8	27471.5	24297.8	16850.2
67.5°	18941.0	19039.2	20044.1	23180.3	27486.0	28421.6	29568.0	29114.7	27780.5	22383.2	14190.6
70°	20182.7	20246.3	21799.9	25730.2	31029.3	32158.4	32712.8	29856.8	26290.4	18747.5	10667.5
72.5°	20717.0	20997.1	23368.0	28407.2	35054.8	35745.0	33769.8	28202.1	21901.0	12735.1	5605.2
73°	20598.6	20933.6	23440.2	28814.3	35369.6	36094.4	33544.5	27350.2	20358.9	10967.8	4805.3
75°	19122.9	19535.9	22501.6	28473.6	34757.4	34324.2	29923.2	23310.2	13757.4	4987.2	2188.9
77.5°	15088.7	15207.1	17829.2	22992.6	27370.4	26567.6	22394.8	14568.9	5619.6	1854.0	1241.7
80°	7568.9	8004.9	10049.5	13171.2	18302.8	18040.0	14135.7	6890.3	2342.0	1088.7	823.0
82.5°	3641.5	3950.5	4894.8	6422.4	10113.0	9873.3	7000.0	3765.7	1487.2	635.3	485.1
85°	2344.9	2575.9	3115.9	3063.9	4158.4	3970.7	3144.8	2850.2	880.8	332.1	337.9
87.5°	1547.9	1695.1	2033.0	1625.8	1513.2	1368.8	1389.0	1605.6	173.3	127.1	46.2
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°	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9	8983.9
2.5°	8885.7	8848.2	8724.0	8602.7	8487.2	8377.5	8305.3	8210.0	8146.4	8163.8	8189.8
5°	8663.4	8579.6	8360.1	8146.4	7944.3	7704.6	7511.1	7355.2	7236.8	7193.5	7184.8
7.5°	8429.4	8287.9	7973.2	7606.4	7262.8	6965.3	6621.7	6451.3	6252.1	6182.8	6159.6
10°	8287.9	8097.4	7655.5	7144.4	6627.5	6133.7	5761.1	5457.9	5183.6	5131.6	5105.6
12.5°	8247.5	7996.3	7401.4	6743.0	6055.7	5449.3	4897.7	4499.2	4233.5	4172.9	4083.3
15°	8224.4	7912.5	7164.6	6338.7	5466.6	4727.3	4146.9	3681.9	3439.4	3277.6	3280.5
17.5°	8204.2	7817.2	6898.9	5896.9	4958.3	4106.4	3465.3	3046.6	2824.3	2737.6	2729.0
20°	8175.3	7704.6	6592.8	5431.9	4377.9	3540.4	2960.0	2648.1	2497.9	2425.7	2422.9
22.5°	8163.8	7594.9	6292.5	4958.3	3863.9	3104.4	2625.0	2405.5	2310.2	2261.1	2261.1
25°	8192.7	7516.9	5977.7	4507.8	3407.6	2731.8	2394.0	2243.8	2188.9	2163.0	2154.3
27.5°	8282.2	7482.3	5665.8	4057.3	2988.9	2477.7	2238.0	2134.1	2093.6	2073.4	2076.3
30°	8452.6	7479.4	5359.7	3612.6	2677.0	2284.2	2113.9	2041.7	2009.9	1998.3	1995.5
32.5°	8726.9	7542.9	5059.4	3245.9	2414.2	2122.5	1998.3	1946.4	1931.9	1923.3	1920.4
35°	9191.8	7721.9	4762.0	2910.9	2212.0	1978.1	1888.6	1862.6	1842.4	1851.1	1854.0
37.5°	9818.5	8030.9	4479.0	2648.1	2059.0	1871.3	1796.2	1773.1	1761.5	1770.2	1778.9
40°	10658.8	8475.7	4242.2	2437.3	1949.3	1781.8	1715.3	1695.1	1683.6	1698.0	1700.9
42.5°	11585.8	8989.7	4045.8	2272.7	1859.7	1706.7	1643.2	1620.0	1611.4	1620.0	1622.9
45°	12538.8	9587.5	3944.7	2154.3	1784.7	1651.8	1585.4	1559.4	1539.2	1533.4	1542.1
47.5°	13477.3	10107.3	3941.8	2082.1	1724.0	1602.7	1530.5	1501.6	1475.7	1461.2	1458.3
50°	14242.6	10520.2	4011.1	2050.3	1672.0	1547.9	1475.7	1446.8	1412.1	1383.2	1389.0
52.5°	14820.1	10788.8	4042.9	2035.9	1643.2	1490.1	1417.9	1391.9	1351.5	1313.9	1313.9
55°	15192.6	10852.3	3964.9	2021.5	1620.0	1429.5	1351.5	1328.4	1288.0	1250.4	1250.4
57.5°	15319.7	10655.9	3684.8	1986.8	1596.9	1377.5	1285.1	1264.9	1233.1	1195.5	1189.8
60°	15025.2	9991.7	3193.9	1882.8	1550.7	1322.6	1212.9	1204.2	1192.7	1160.9	1158.0
62.5°	13890.3	8582.5	2659.7	1747.1	1472.8	1264.9	1146.5	1160.9	1169.6	1152.2	1149.3
65°	12001.6	6968.2	2272.7	1559.4	1368.8	1184.0	1074.3	1111.8	1134.9	1134.9	1129.1
67.5°	9734.7	5351.1	1914.6	1397.7	1238.9	1074.3	993.4	1022.3	1039.6	1033.8	1048.3
70°	6919.1	3624.2	1559.4	1212.9	1074.3	950.1	889.4	889.4	877.9	872.1	872.1
72.5°	3355.6	2070.5	1264.9	1013.6	915.4	811.5	762.4	742.2	719.1	716.2	701.7
73°	2804.0	1856.8	1207.1	976.1	877.9	791.3	736.4	704.6	690.2	678.6	675.7
75°	1706.7	1409.2	1007.8	823.0	747.9	681.5	632.4	603.5	589.1	580.4	577.6
77.5°	1123.3	1051.2	782.6	629.5	571.8	531.4	511.1	482.3	473.6	462.0	462.0
80°	837.5	802.8	560.2	444.7	410.1	375.4	369.6	363.9	340.8	326.3	320.5
82.5°	540.0	571.8	381.2	297.4	259.9	231.0	233.9	242.6	219.5	199.3	193.5
85°	384.1	413.0	231.0	135.7	109.7	95.3	106.8	95.3	98.2	78.0	63.5
87.5°	63.5	109.7	40.4	17.3	8.7	5.8	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)