

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: P531247

Luminaire Tested: **GALN-SA6C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22668 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

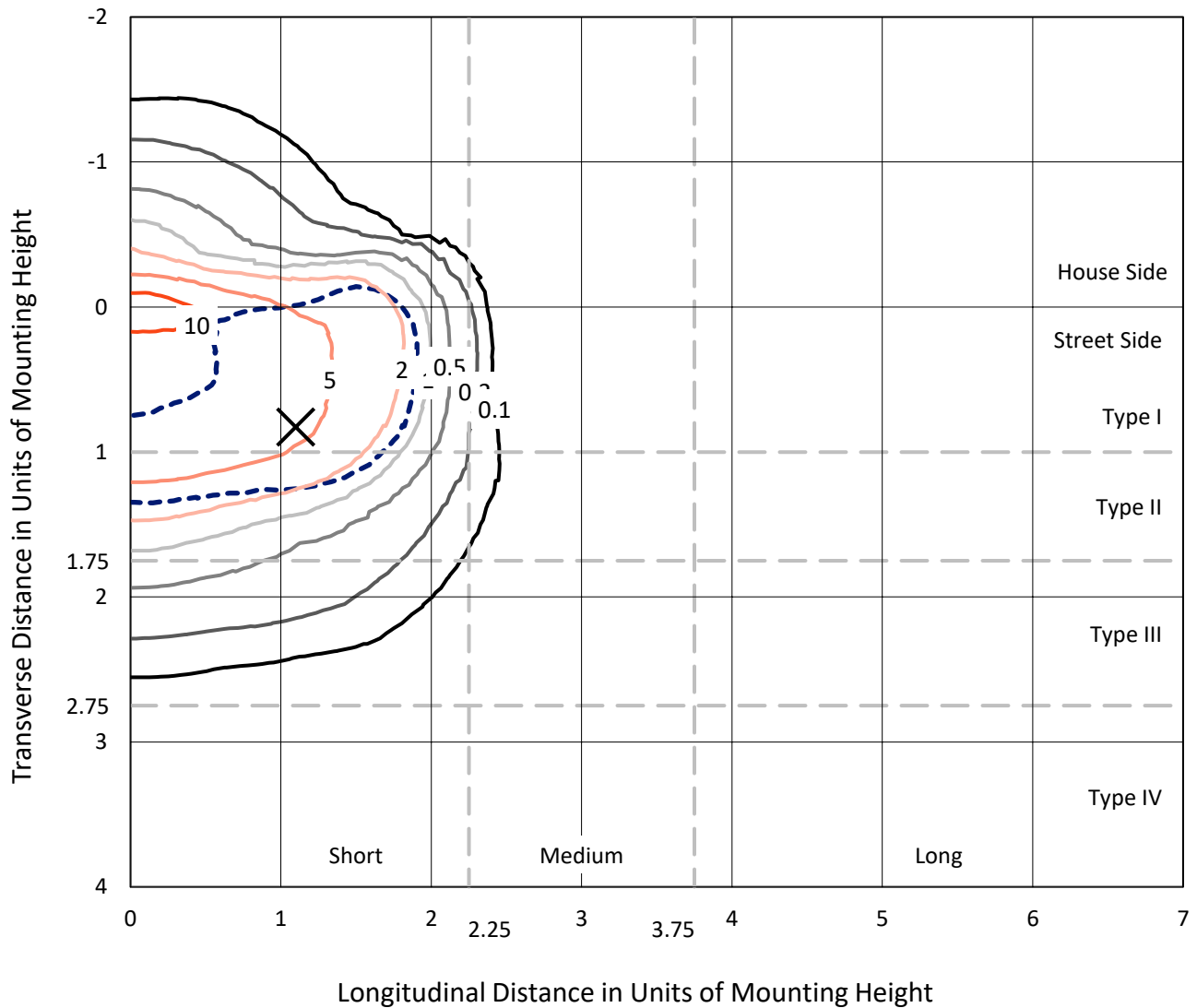
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

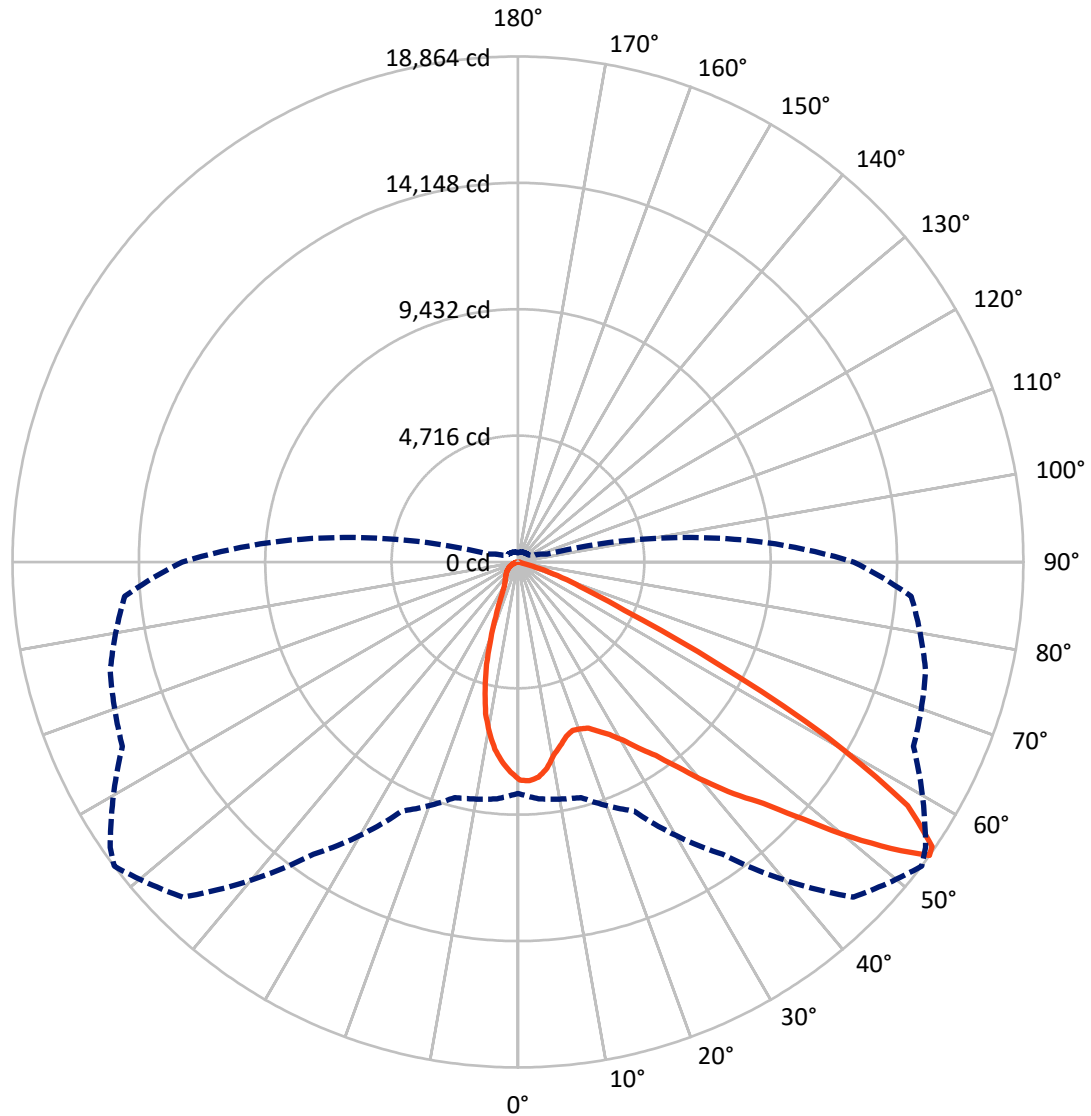
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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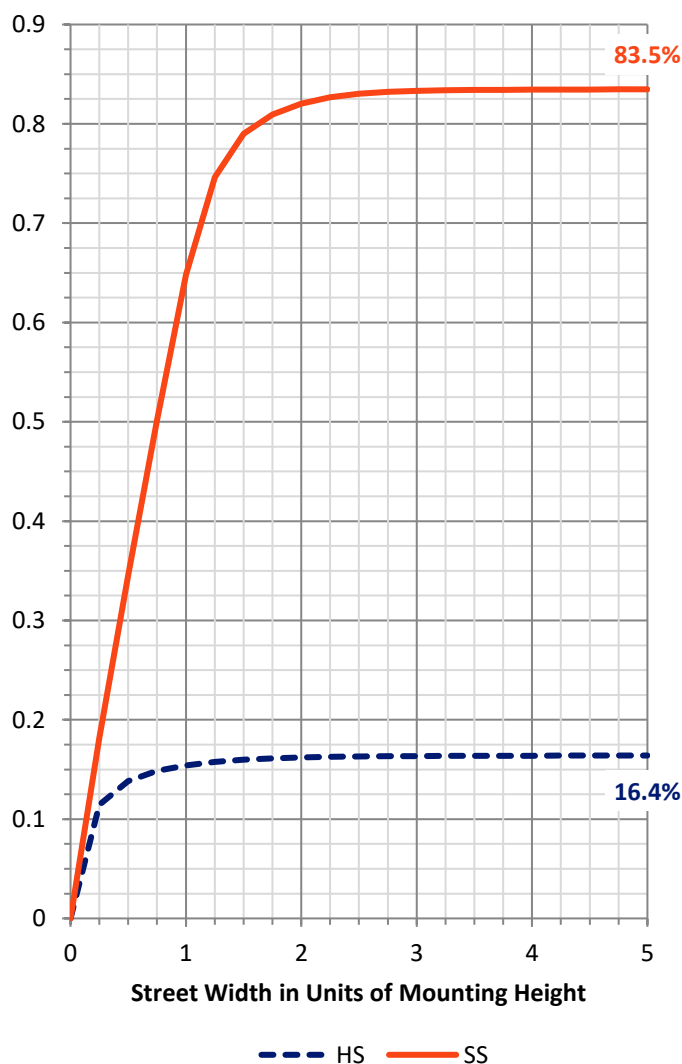
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3750.5	0.0	3750.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	18917.5	0.0	18917.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	22668.0	0.0	22668.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	698.6	3.1
10°-20°	1601.6	7.1
20°-30°	2276.2	10.0
30°-40°	3512.8	15.5
40°-50°	5507.7	24.3
50°-60°	6397.9	28.2
60°-70°	2417.5	10.7
70°-80°	229.9	1.0
80°-90°	25.9	0.1
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°	22668.0	100.0
0°-180°	22668.0	100.0

**Coefficient of Utilization**



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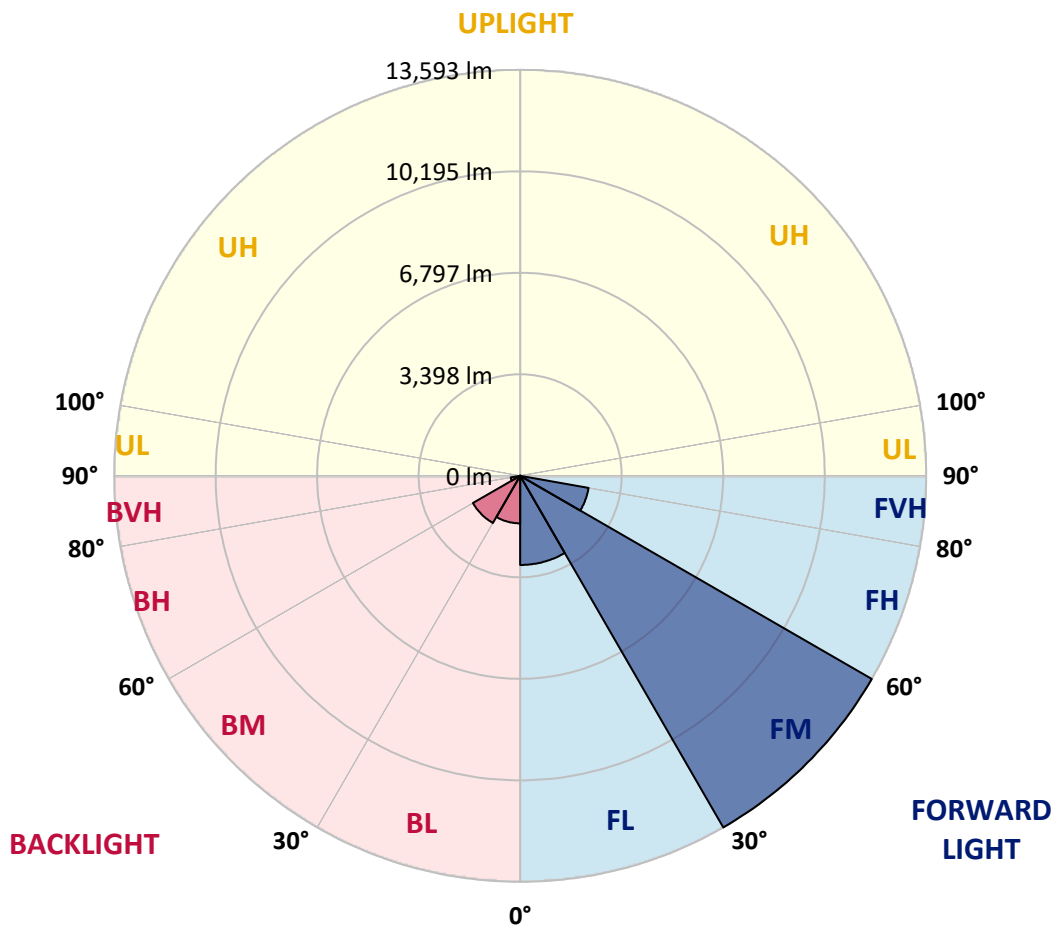
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2984.8	13.2			
FM (30°-60°)	13593.3	60.0			
FH (60°-80°)	2326.1	10.3			G2/5000
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	1591.5	7.0	B3/2500		
BM (30°-60°)	1825.1	8.1	B2/2500		
BH (60°-80°)	321.3	1.4	B1/500		G1/500
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0
2.5°	8099.7	8027.9	8099.7	8108.2	8158.9	8205.3	8175.7	8243.3	8205.3	8163.1	8150.4
5°	7445.2	7542.3	7546.5	7698.5	7664.8	7943.5	8065.9	8032.2	8239.1	8226.4	8196.9
7.5°	6858.2	6820.2	6870.8	7048.2	7272.0	7593.0	7770.3	7766.1	8061.7	8272.9	8251.8
10°	6313.4	6309.2	6414.8	6554.1	6744.1	7082.0	7326.9	7449.4	7909.7	8230.6	8277.1
12.5°	5946.0	5929.1	6043.1	6157.1	6457.0	6718.8	7031.3	7090.4	7618.3	8082.8	8158.9
15°	5705.3	5743.3	5751.7	5971.3	6161.4	6507.7	6752.6	6875.1	7483.2	7964.6	8256.0
17.5°	5663.1	5713.7	5718.0	5899.5	6102.2	6393.6	6609.0	6773.7	7369.2	8023.7	8260.2
20°	5747.5	5718.0	5743.3	5857.3	6055.8	6334.5	6647.0	6701.9	7331.1	8053.3	8306.7
22.5°	5988.2	5979.8	5916.4	6009.3	6148.7	6440.1	6735.7	6820.2	7440.9	8205.3	8344.7
25°	6254.3	6300.7	6241.6	6228.9	6326.1	6613.2	7006.0	7115.8	7808.3	8479.8	8462.9
27.5°	6752.6	6706.1	6706.1	6647.0	6621.7	6761.0	7297.4	7479.0	8218.0	8834.5	8598.0
30°	7229.8	7280.5	7242.5	7263.6	7094.7	7082.0	7711.2	7935.0	8944.3	9375.1	8885.2
32.5°	7985.7	7918.1	7981.5	7926.6	7702.8	7474.7	8272.9	8505.1	9822.7	9995.9	9316.0
35°	8614.9	8585.4	8855.7	8847.2	8484.0	8260.2	8868.3	9214.6	10435.1	10739.1	9822.7
37.5°	9510.2	9455.3	9763.6	9911.4	9586.2	9252.6	9721.4	10122.6	11005.2	11334.6	10342.2
40°	10430.8	10570.2	10984.0	11229.0	10882.7	10439.3	10764.5	10886.9	11385.2	11723.1	10696.9
42.5°	11596.4	11799.1	12221.4	12432.5	12403.0	11921.6	11824.4	11820.2	11659.7	11613.3	10958.7
45°	12715.5	12639.5	13289.8	13750.1	14121.7	13982.4	12846.4	12719.7	12094.7	11778.0	11026.3
47.5°	13205.4	13180.0	13623.4	14442.7	15709.6	15882.7	14332.9	13843.0	12829.5	12470.5	11393.7
50°	12571.9	12702.8	13142.0	14050.0	15992.5	17314.3	16157.2	15498.4	13686.8	13315.2	12263.6
52.5°	10502.6	10591.3	11009.4	12162.3	15029.7	18158.9	17905.6	17525.5	15262.0	14645.4	13779.7
54°	8636.1	8872.5	9100.6	10257.7	13315.2	17690.2	18864.2	18572.8	16288.1	15751.8	14734.1
55°	7521.2	7660.5	7825.2	8978.1	12128.5	16896.3	18754.4	18779.7	16976.5	16098.1	15376.0
57.5°	5494.1	5591.3	5422.3	5933.3	8327.8	13720.6	17153.9	17838.0	17905.6	16617.5	15768.7
60°	4197.7	4239.9	4049.9	4130.1	5177.4	9417.3	13268.7	14092.2	16153.0	14522.9	13357.4
62.5°	3255.9	3264.4	3260.2	3399.5	3568.4	5540.6	8298.2	9028.8	11136.1	10312.6	9071.0
65°	2398.7	2360.7	2428.2	2850.5	3044.8	3484.0	4370.8	4902.9	6051.6	5109.8	3652.9
67.5°	1554.1	1566.7	1634.3	2120.0	2609.8	2673.2	2690.1	2647.8	2652.1	1461.2	916.4
70°	933.3	954.4	933.3	1199.3	1866.6	1917.2	1752.5	1710.3	1334.5	346.3	342.1
72.5°	553.2	523.7	468.8	515.2	777.0	929.1	836.2	831.9	523.7	202.7	202.7
75°	232.3	211.2	173.1	156.3	206.9	198.5	198.5	177.4	139.4	135.1	126.7
77.5°	46.5	46.5	33.8	38.0	50.7	59.1	71.8	71.8	84.5	84.5	80.2
80°	0.0	4.2	12.7	25.3	38.0	54.9	63.3	63.3	71.8	71.8	59.1
82.5°	0.0	4.2	12.7	25.3	33.8	50.7	63.3	63.3	71.8	76.0	63.3
85°	0.0	4.2	12.7	21.1	33.8	42.2	42.2	38.0	29.6	25.3	16.9
87.5°	0.0	0.0	4.2	8.4	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0
2.5°	8180.0	8175.7	8074.4	7909.7	7871.7	7732.3	7715.4	7631.0	7677.4	7521.2	7504.3
5°	8112.4	8061.7	7939.3	7833.7	7525.4	7305.8	7132.7	6921.5	6799.0	6820.2	6739.9
7.5°	8209.5	8078.6	7863.2	7495.8	7120.0	6735.7	6528.8	6098.0	5941.8	5709.5	5675.7
10°	8108.2	8011.1	7677.4	7069.3	6549.9	5996.7	5511.0	5033.8	4670.6	4514.4	4480.6
12.5°	8099.7	7930.8	7373.4	6697.7	5946.0	5152.1	4446.8	3851.4	3492.4	3289.7	3243.3
15°	7968.8	7766.1	7031.3	6123.4	5084.5	4096.3	3327.7	2753.4	2478.9	2360.7	2394.4
17.5°	7981.5	7677.4	6689.2	5515.3	4235.7	3006.8	2272.0	1976.4	1904.6	1934.1	1934.1
20°	7968.8	7479.0	6275.4	4814.2	3243.3	2086.2	1668.1	1562.5	1609.0	1701.9	1680.8
22.5°	7901.3	7386.0	5895.3	4075.2	2386.0	1545.6	1338.7	1342.9	1414.7	1528.7	1554.1
25°	7951.9	7179.1	5413.9	3327.7	1739.9	1233.1	1161.3	1190.9	1266.9	1351.4	1368.3
27.5°	7913.9	7031.3	4911.4	2584.5	1271.1	1060.0	1055.8	1089.5	1123.3	1186.7	1186.7
30°	7956.2	6896.2	4417.3	1921.5	1047.3	971.3	954.4	979.7	1013.5	1026.2	1022.0
32.5°	8112.4	6794.8	3847.2	1435.8	924.8	886.8	886.8	886.8	882.6	899.5	903.7
35°	8454.5	6811.7	3344.6	1110.7	844.6	815.0	802.4	785.5	777.0	785.5	789.7
37.5°	8826.1	6803.3	2825.2	946.0	785.5	760.1	730.6	705.2	701.0	709.5	696.8
40°	8990.8	6883.5	2343.8	848.8	730.6	701.0	654.6	633.5	637.7	646.1	637.7
42.5°	9214.6	6908.8	2031.3	772.8	679.9	633.5	603.9	578.6	574.3	587.0	582.8
45°	9210.4	6765.3	1701.9	730.6	633.5	582.8	544.8	523.7	523.7	532.1	536.3
47.5°	9480.7	6744.1	1461.2	692.6	599.7	549.0	502.5	485.6	481.4	481.4	473.0
50°	10109.9	7039.8	1275.3	650.3	557.4	511.0	473.0	451.9	435.0	426.5	422.3
52.5°	11338.8	7960.4	1131.8	599.7	511.0	473.0	439.2	422.3	401.2	380.1	375.8
54°	12529.7	8910.6	1123.3	557.4	473.0	447.6	418.1	409.6	384.3	354.7	346.3
55°	13066.0	9463.8	1152.9	523.7	447.6	430.7	405.4	397.0	371.6	337.8	333.6
57.5°	13509.4	9679.1	1136.0	435.0	405.4	401.2	380.1	367.4	337.8	291.4	282.9
60°	10874.3	7318.5	815.0	384.3	371.6	363.2	346.3	337.8	299.8	249.2	244.9
62.5°	6870.8	4210.3	519.4	337.8	325.2	312.5	291.4	282.9	249.2	198.5	185.8
65°	2926.5	1744.1	350.5	299.8	278.7	257.6	240.7	228.0	198.5	147.8	143.6
67.5°	760.1	620.8	291.4	261.8	232.3	202.7	190.0	168.9	135.1	101.4	97.1
70°	342.1	312.5	244.9	219.6	185.8	156.3	139.4	118.2	88.7	67.6	63.3
72.5°	202.7	198.5	185.8	164.7	139.4	118.2	101.4	80.2	59.1	38.0	38.0
75°	126.7	122.5	126.7	114.0	97.1	88.7	76.0	54.9	33.8	16.9	16.9
77.5°	76.0	76.0	76.0	71.8	67.6	67.6	54.9	33.8	16.9	4.2	4.2
80°	59.1	59.1	63.3	59.1	59.1	59.1	46.5	25.3	8.4	0.0	0.0
82.5°	59.1	63.3	71.8	67.6	59.1	50.7	42.2	25.3	8.4	0.0	0.0
85°	16.9	12.7	21.1	29.6	42.2	38.0	29.6	21.1	8.4	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	4.2	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)