

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: P532621

Luminaire Tested: **GALN-SA8A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25088 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

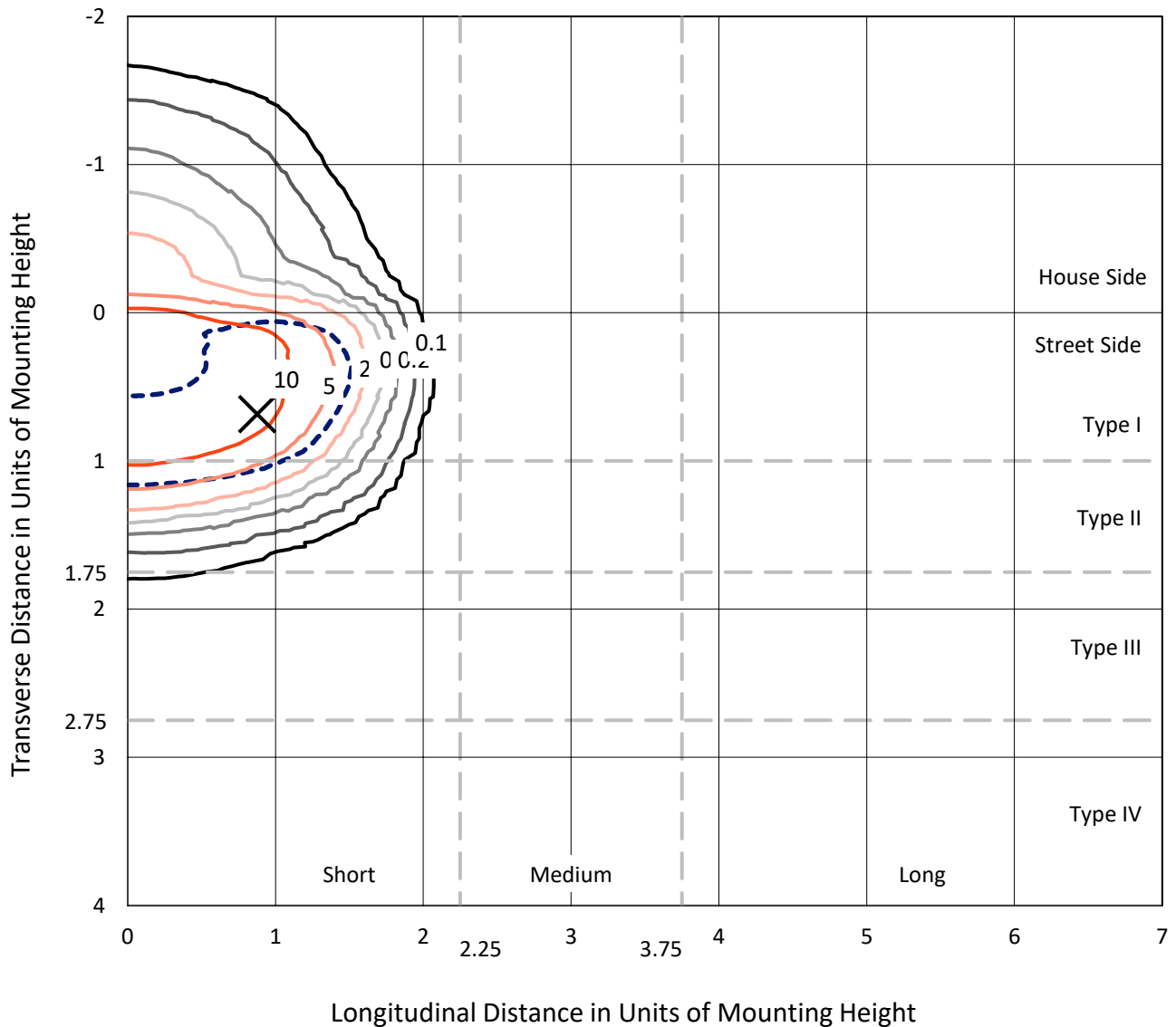
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

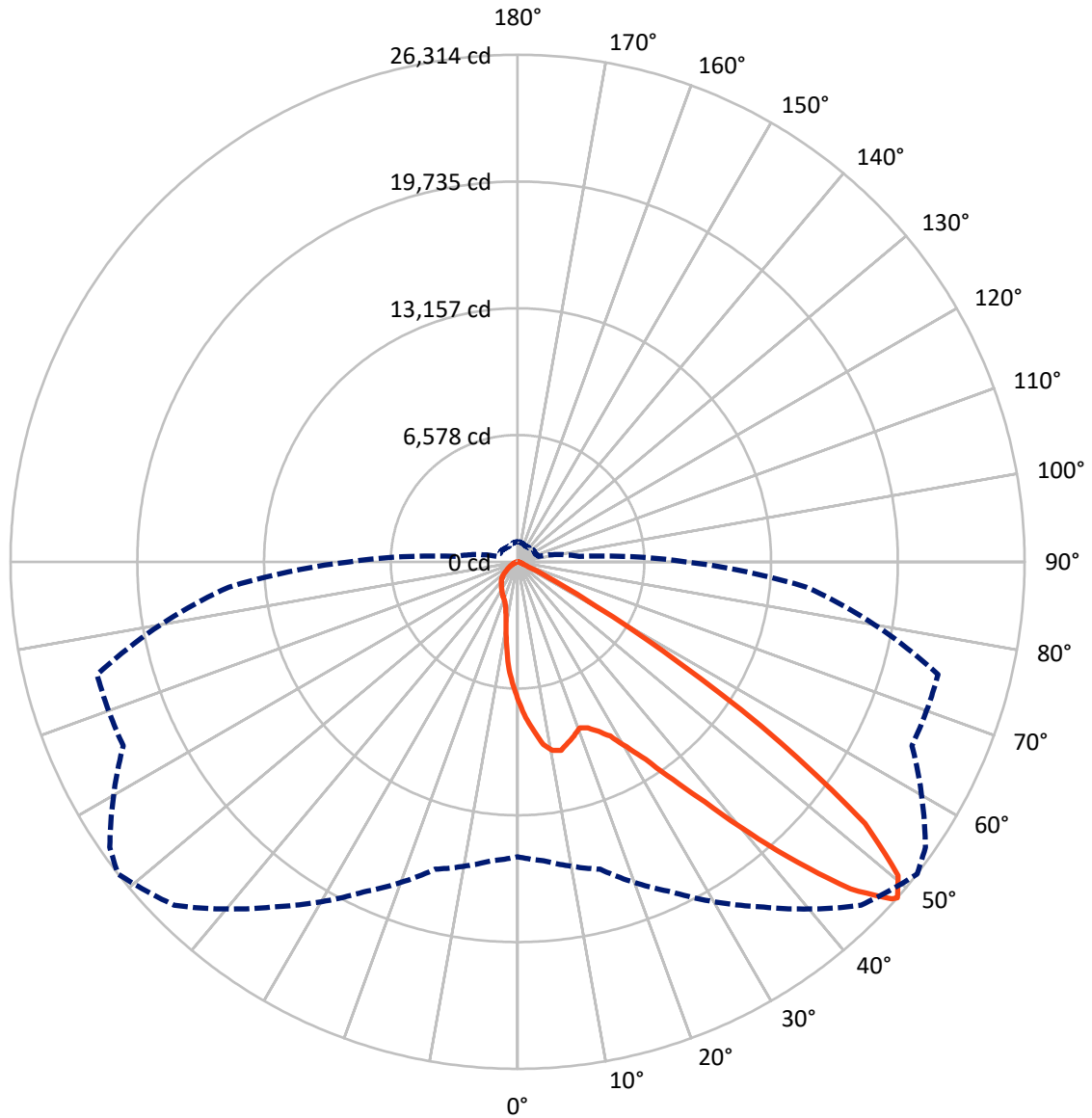
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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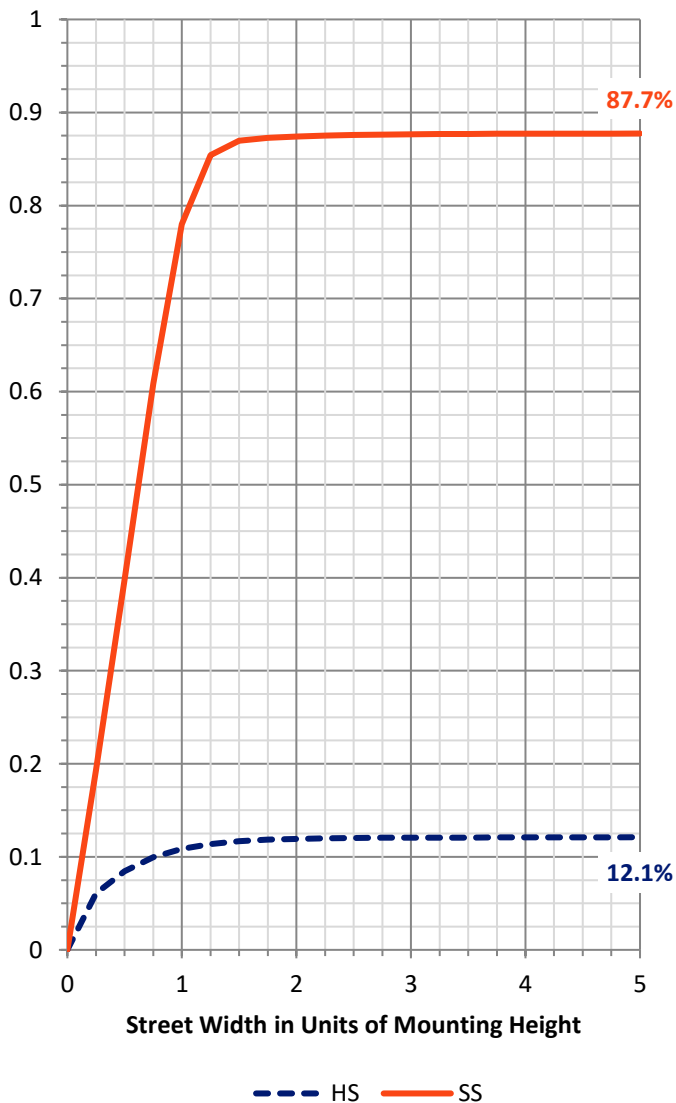
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3054.7	0.0	3054.7
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	22033.3	0.0	22033.3
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	25088.0	0.0	25088.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.1	2.6
10°-20°	1733.0	6.9
20°-30°	2958.9	11.8
30°-40°	5448.8	21.7
40°-50°	8462.0	33.7
50°-60°	5092.7	20.3
60°-70°	589.0	2.3
70°-80°	114.0	0.5
80°-90°	26.4	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°	25088.0	100.0
0°-180°	25088.0	100.0

**Coefficient of Utilization**



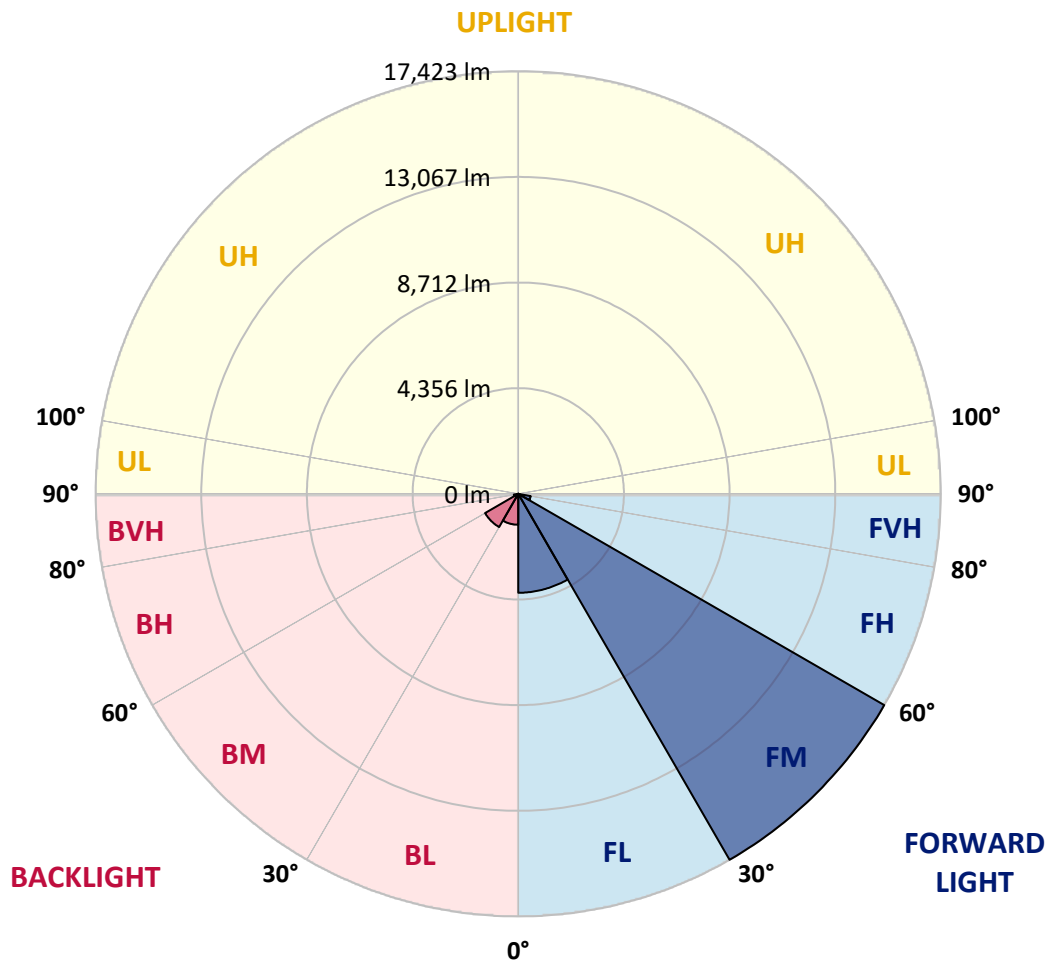
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4079.0	16.3			
FM (30°-60°)	17423.1	69.4			
FH (60°-80°)	518.7	2.1			G0/660
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	1276.0	5.1	B3/2500		
BM (30°-60°)	1580.4	6.3	B2/2500		
BH (60°-80°)	184.4	0.7	B1/500		G1/500
BVH (80°-90°)	13.8	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0
2.5°	8781.0	8579.9	8598.2	8466.5	8389.7	8265.4	8097.1	8064.2	7881.4	7632.7	7380.3
5°	9571.0	9523.5	9585.6	9395.5	9402.8	9198.0	8803.0	8810.3	8389.7	7983.8	7592.4
7.5°	9622.2	9512.5	9574.7	9742.9	9841.6	9805.1	9582.0	9388.1	8989.5	8393.4	7822.8
10°	8616.5	8824.9	8890.8	9168.7	9563.7	9980.6	9955.0	9966.0	9633.2	8854.2	8020.3
12.5°	8013.0	7874.0	8097.1	8265.4	8861.5	9669.7	10039.1	10119.6	10145.2	9300.4	8217.8
15°	7738.7	7738.7	7775.3	7822.8	8254.4	9000.5	9753.9	9987.9	10540.2	9885.5	8528.7
17.5°	7910.6	7903.3	7954.5	7855.8	8016.7	8590.9	9490.5	9757.5	10982.7	10459.7	8773.7
20°	8433.6	8459.2	8426.3	8141.0	8152.0	8583.5	9198.0	9618.5	11282.6	10957.1	9099.2
22.5°	9161.4	9176.0	8989.5	8678.6	8587.2	8799.3	9366.2	9688.0	11524.0	11553.2	9198.0
25°	10002.6	9944.0	9907.5	9468.6	9190.7	9373.5	9746.6	9933.1	11673.9	12065.2	9479.6
27.5°	11169.2	11052.2	10829.1	10437.8	10233.0	9973.3	10240.3	10547.5	12101.8	12782.1	9786.8
30°	12891.8	12789.4	12354.2	11849.5	11311.9	11055.8	11140.0	11308.2	12873.5	13612.3	10192.7
32.5°	15484.8	15269.0	14639.9	13678.1	12946.6	12240.8	12218.8	12398.1	13564.7	14760.6	10675.5
35°	18341.1	18275.2	17350.0	16358.8	14943.5	13853.6	13871.9	13967.0	14888.6	16267.4	11308.2
37.5°	20239.2	20601.2	20012.4	18948.2	17759.6	16201.6	15806.6	15839.5	16706.3	18052.1	12449.3
40°	21705.7	21398.5	21468.0	21219.3	20407.4	19346.8	18472.7	18300.8	18809.2	20027.1	13583.0
42.5°	21065.7	21080.3	21508.2	22097.1	22298.2	22221.4	21329.0	21003.5	20608.6	21643.6	14661.9
45°	19259.0	19635.7	20191.6	21749.6	23117.4	24401.1	24225.6	23684.3	21852.0	22923.6	15283.6
47.5°	16377.1	16362.5	17273.2	19299.3	22338.4	25344.7	26142.0	25761.6	22733.4	22781.0	15155.6
48°	15312.9	15576.2	16516.1	18900.6	21844.7	25205.7	26313.9	25834.8	22583.5	22590.8	15045.9
50°	11319.2	11271.6	12441.9	15367.7	19511.4	23684.3	25589.7	25962.8	22579.8	21628.9	14277.9
52.5°	5979.6	6184.4	7036.5	9662.4	13795.1	19383.4	22572.5	23154.0	21782.5	20056.3	13173.4
55°	2541.8	2296.7	2951.4	4363.1	7760.7	12950.3	16560.0	17854.7	18417.9	17748.6	11524.0
57.5°	907.0	991.1	1141.1	1642.1	3262.3	7087.7	9874.6	10880.3	12760.1	13023.4	7852.1
60°	581.5	592.5	640.0	753.4	1225.2	2732.0	4684.9	5485.9	6338.0	6542.8	3664.6
62.5°	449.8	453.5	475.4	493.7	581.5	1060.6	1759.1	2084.6	2165.1	1861.5	961.9
65°	376.7	380.4	387.7	387.7	413.3	497.4	614.4	676.6	658.3	651.0	544.9
67.5°	288.9	296.2	310.9	310.9	325.5	303.6	340.1	362.1	409.6	497.4	464.5
70°	226.7	230.4	241.4	248.7	248.7	219.4	245.0	267.0	299.9	369.4	365.7
72.5°	175.5	182.9	190.2	190.2	179.2	149.9	175.5	193.8	215.8	256.0	248.7
75°	135.3	135.3	139.0	113.4	87.8	76.8	106.1	128.0	160.9	168.2	139.0
77.5°	36.6	40.2	36.6	32.9	36.6	54.9	69.5	80.5	102.4	102.4	91.4
80°	0.0	3.7	11.0	21.9	36.6	51.2	62.2	69.5	80.5	87.8	84.1
82.5°	0.0	3.7	11.0	21.9	32.9	40.2	54.9	58.5	65.8	76.8	76.8
85°	0.0	3.7	7.3	14.6	21.9	25.6	25.6	21.9	21.9	18.3	14.6
87.5°	0.0	0.0	3.7	7.3	7.3	11.0	11.0	11.0	11.0	11.0	11.0
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°	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0	7245.0
2.5°	7281.6	7168.2	6996.3	6725.7	6466.0	6297.8	6136.9	5957.6	5858.9	5851.6	5796.7
5°	7369.3	7113.3	6703.7	6239.3	5741.9	5314.0	4882.4	4600.8	4348.5	4209.5	4183.9
7.5°	7416.9	7084.1	6422.1	5643.1	4794.6	4096.1	3613.4	3258.6	3119.6	3017.2	3013.6
10°	7515.6	7032.9	6001.5	4853.2	3803.5	3097.7	2764.9	2604.0	2527.2	2497.9	2454.0
12.5°	7588.8	6937.8	5570.0	4041.3	3006.3	2567.4	2421.1	2384.5	2388.2	2402.8	2384.5
15°	7691.2	6853.7	4988.5	3317.1	2523.5	2311.4	2311.4	2318.7	2369.9	2377.2	2373.6
17.5°	7683.9	6689.1	4388.7	2732.0	2230.9	2201.7	2212.6	2282.1	2315.0	2326.0	2300.4
20°	7771.6	6535.5	3770.6	2333.3	2066.3	2110.2	2183.4	2201.7	2241.9	2249.2	2219.9
22.5°	7746.0	6151.5	3196.4	2018.8	1942.0	2026.1	2099.3	2121.2	2110.2	2088.3	2084.6
25°	7698.5	5822.3	2669.8	1810.3	1850.6	1942.0	2011.5	1971.3	1949.3	1953.0	1956.6
27.5°	7614.4	5405.4	2234.6	1664.0	1726.2	1861.5	1857.9	1843.3	1865.2	1846.9	1865.2
30°	7599.8	4988.5	1876.2	1532.4	1634.8	1733.5	1740.8	1766.4	1792.0	1759.1	1792.0
32.5°	7621.7	4531.3	1620.2	1451.9	1579.9	1583.6	1664.0	1689.6	1671.4	1598.2	1605.5
35°	7789.9	4180.2	1433.6	1408.0	1492.2	1495.8	1572.6	1539.7	1459.2	1415.4	1441.0
37.5°	8144.7	3887.6	1345.9	1367.8	1375.1	1422.7	1426.3	1360.5	1367.8	1364.2	1378.8
40°	8598.2	3664.6	1283.7	1331.2	1323.9	1356.8	1225.2	1261.7	1294.7	1305.6	1313.0
42.5°	8909.0	3503.6	1243.5	1272.7	1258.1	1199.6	1126.4	1163.0	1188.6	1228.8	1236.1
45°	9048.0	3375.6	1195.9	1170.3	1170.3	1064.3	1035.0	1042.3	1100.8	1144.7	1137.4
47.5°	8821.3	3251.3	1111.8	1035.0	1060.6	972.8	939.9	939.9	1002.1	1056.9	1046.0
48°	8733.5	3200.1	1115.5	1005.7	1024.0	958.2	925.3	918.0	987.5	1038.7	1038.7
50°	8298.3	3009.9	1020.4	925.3	888.7	881.4	859.5	866.8	910.7	958.2	958.2
52.5°	7449.8	2600.3	863.1	793.6	727.8	771.7	782.6	768.0	790.0	833.9	830.2
55°	6217.3	1996.9	691.2	658.3	607.1	654.6	676.6	658.3	636.4	669.3	669.3
57.5°	3982.7	1075.2	552.2	559.6	508.4	555.9	574.2	530.3	490.1	515.7	512.0
60°	1795.7	643.7	453.5	442.5	409.6	464.5	493.7	442.5	387.7	406.0	424.2
62.5°	672.9	457.2	343.8	336.5	329.2	380.4	395.0	354.8	299.9	310.9	314.5
65°	493.7	402.3	274.3	248.7	263.3	299.9	292.6	252.3	215.8	215.8	223.1
67.5°	420.6	351.1	223.1	193.8	193.8	197.5	182.9	160.9	149.9	157.3	164.6
70°	329.2	278.0	175.5	149.9	135.3	120.7	106.1	102.4	91.4	102.4	98.7
72.5°	212.1	186.5	135.3	113.4	102.4	84.1	69.5	65.8	54.9	51.2	51.2
75°	113.4	113.4	106.1	91.4	80.5	65.8	54.9	43.9	29.3	21.9	21.9
77.5°	80.5	87.8	95.1	87.8	73.1	54.9	43.9	29.3	14.6	7.3	7.3
80°	76.8	87.8	95.1	84.1	73.1	54.9	40.2	21.9	11.0	3.7	3.7
82.5°	69.5	80.5	87.8	76.8	65.8	47.5	36.6	21.9	11.0	3.7	3.7
85°	14.6	18.3	21.9	21.9	25.6	32.9	25.6	18.3	7.3	3.7	3.7
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	7.3	7.3	3.7	3.7	3.7
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)