

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: P533571

Luminaire Tested: **GALN-SA9A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24971 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

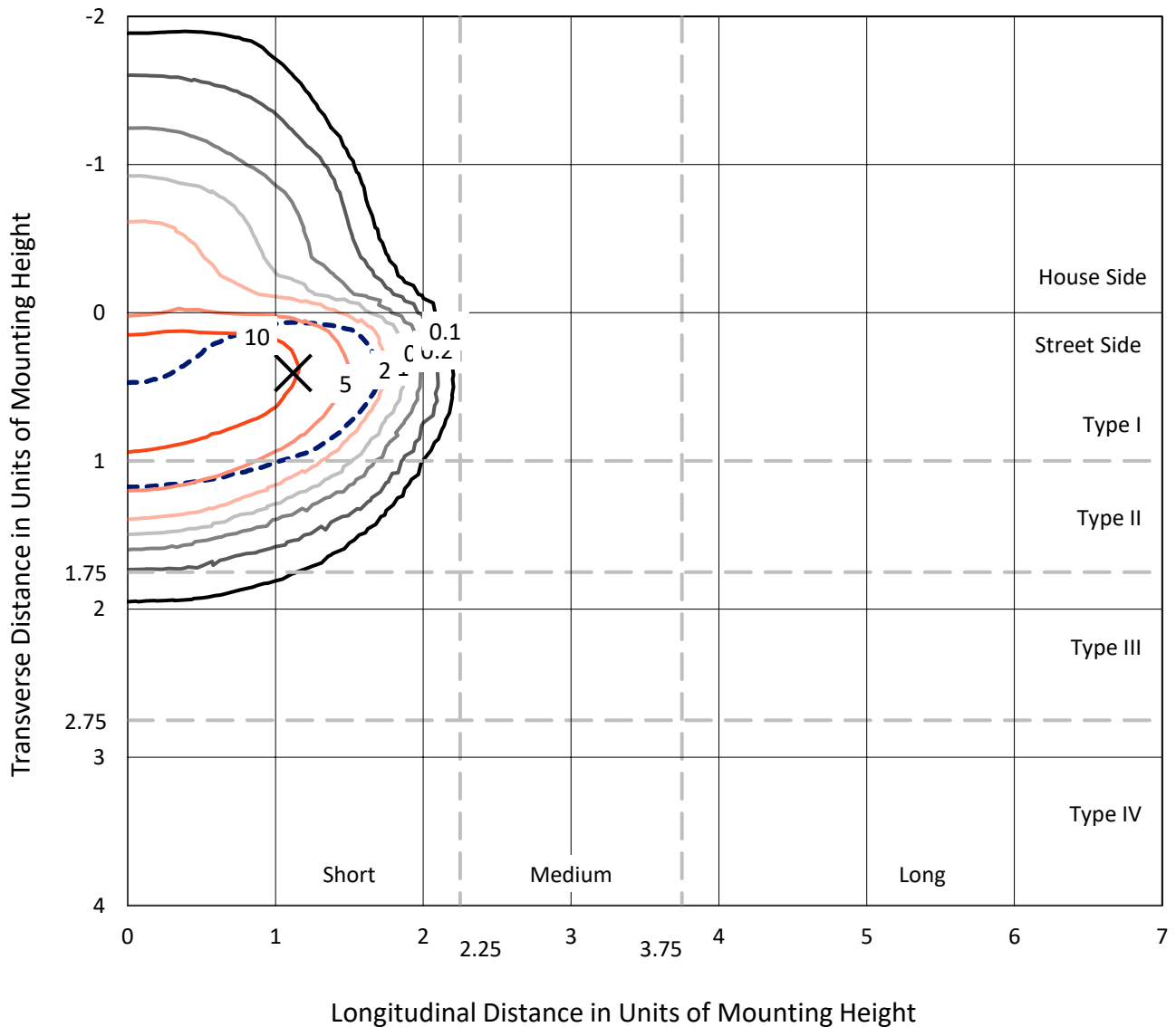
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

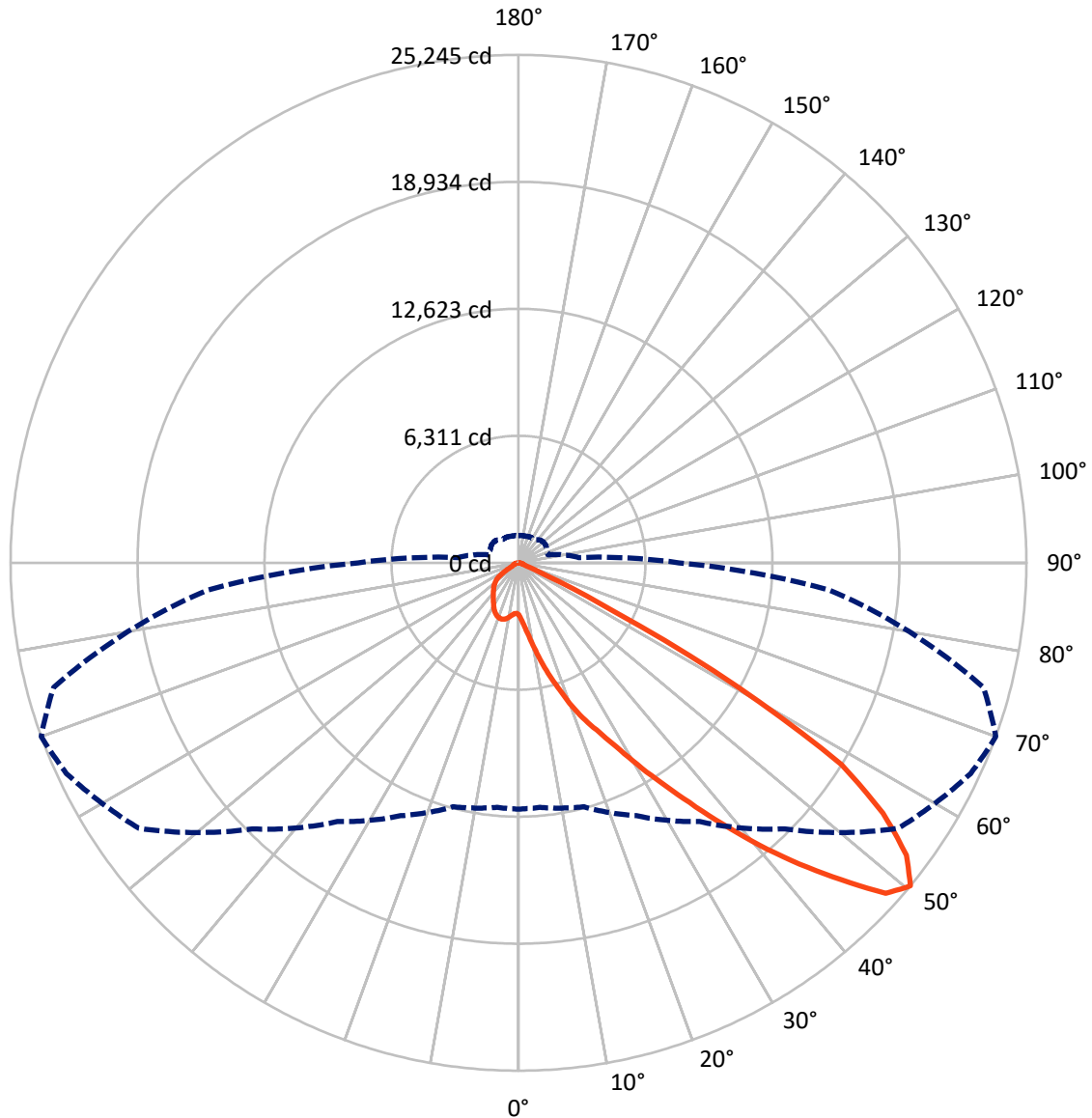
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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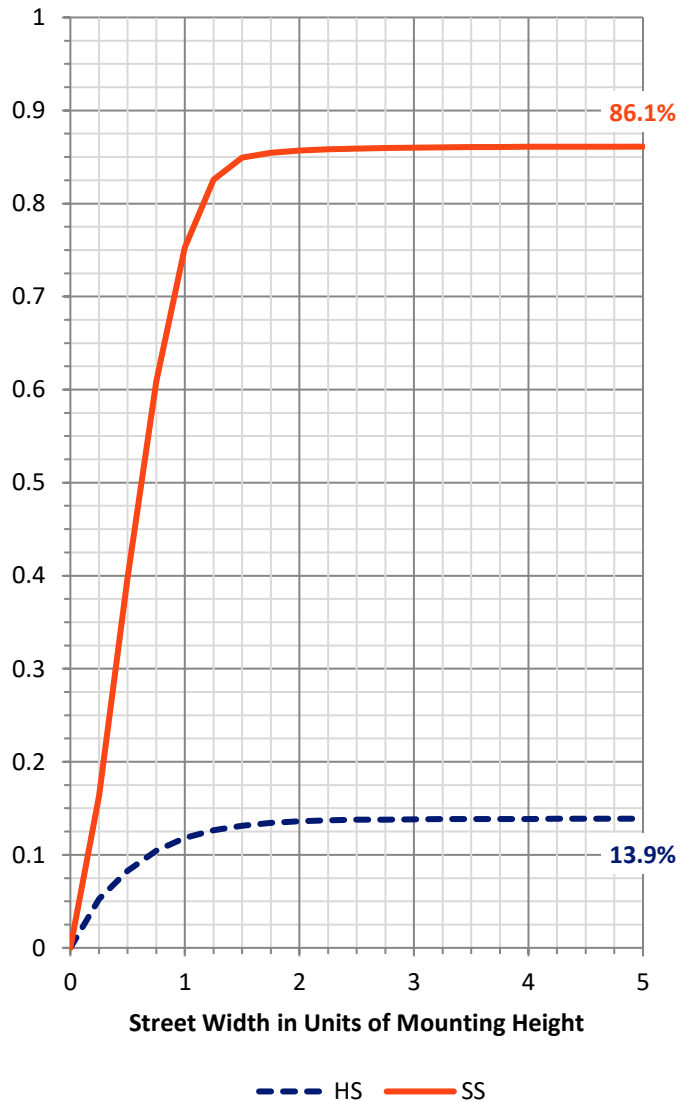
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3487.4	0.0	3487.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	21483.6	0.0	21483.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	24971.0	0.0	24971.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.3	1.3
10°-20°	1454.9	5.8
20°-30°	3052.1	12.2
30°-40°	5260.8	21.1
40°-50°	7688.6	30.8
50°-60°	5988.2	24.0
60°-70°	1014.6	4.1
70°-80°	139.4	0.6
80°-90°	36.1	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°	24971.0	100.0
0°-180°	24971.0	100.0

**Coefficient of Utilization**



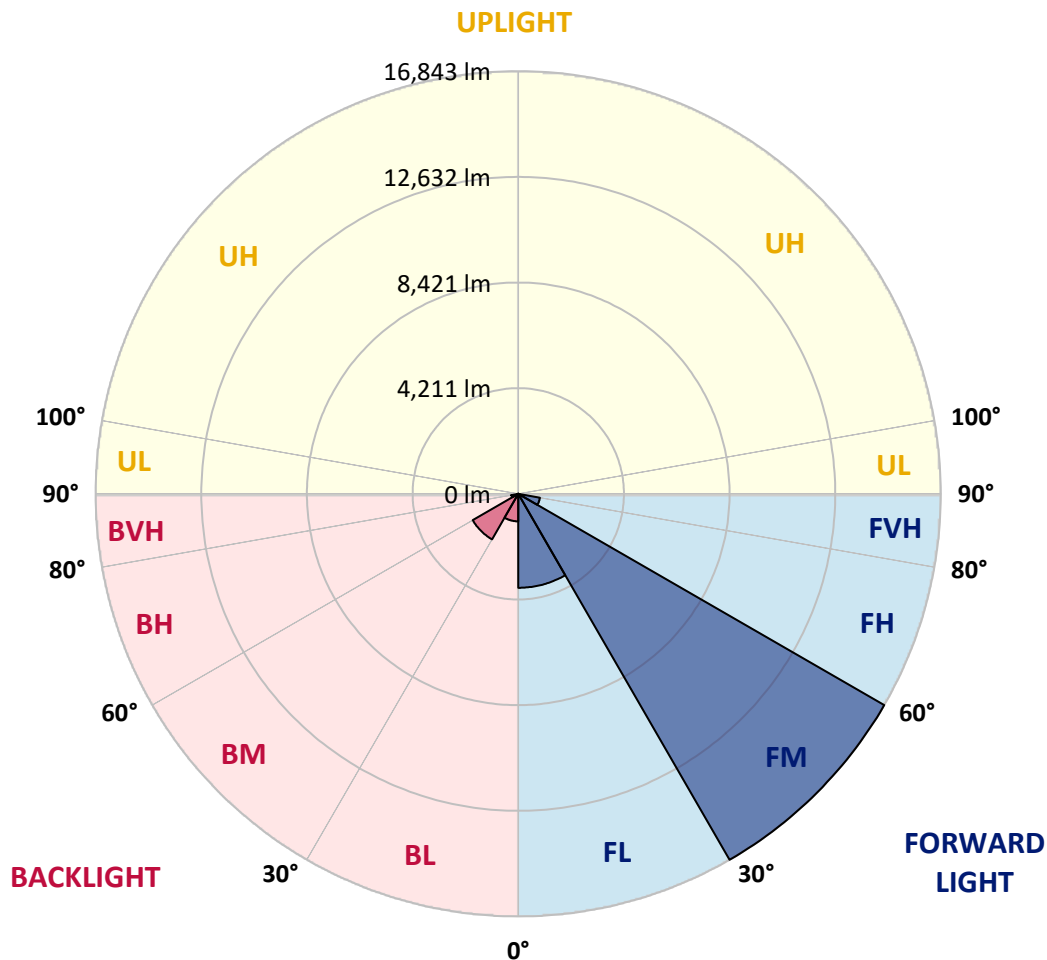
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3745.9	15.0			
FM (30°-60°)	16842.5	67.4			
FH (60°-80°)	878.5	3.5			G1/1800
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1097.4	4.4	B3/2500		
BM (30°-60°)	2095.1	8.4	B2/2500		
BH (60°-80°)	275.5	1.1	B1/500		G1/500
BVH (80°-90°)	19.4	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5
2.5°	3387.1	3362.5	3309.1	3210.5	3169.5	3071.0	3013.5	2902.6	2832.8	2754.8	2668.6
5°	4770.7	4643.4	4565.4	4454.5	4130.2	3929.0	3596.5	3313.2	3181.8	3038.1	2841.0
7.5°	6199.4	6117.3	6010.5	5772.4	5550.7	5132.0	4561.3	3937.2	3670.4	3424.0	3034.0
10°	7381.8	7151.9	7139.6	6963.0	6720.8	6219.9	5534.3	4758.3	4282.1	3920.8	3309.1
12.5°	8207.0	7997.6	8092.1	8071.5	7845.7	7385.9	6593.5	5567.1	5070.4	4507.9	3592.4
15°	8958.3	8872.1	8843.4	8818.7	8728.4	8387.7	7677.4	6552.5	5834.0	5156.6	3912.6
17.5°	9693.2	9471.5	9578.3	9598.8	9590.6	9282.7	8617.6	7488.5	6642.8	5842.2	4249.3
20°	10346.0	10366.5	10222.8	10194.1	10169.5	10157.2	9508.5	8416.4	7636.3	6560.7	4688.6
22.5°	11183.6	11039.9	11167.1	11085.0	10924.9	10826.4	10329.6	9237.5	8498.5	7427.0	5136.1
25°	12173.0	12287.9	11988.2	11955.4	11778.9	11438.1	10990.6	10157.2	9327.8	8231.7	5620.5
27.5°	13392.3	13191.2	13113.2	12932.5	12612.3	12468.6	11943.1	11105.5	10329.6	9077.4	6088.5
30°	14439.3	14385.9	13995.9	13782.4	13503.2	13499.1	12764.2	12390.6	11635.2	10403.5	6733.1
32.5°	15293.2	15059.2	14915.5	14767.7	14541.9	14603.5	13983.5	13786.5	13026.9	11635.2	7492.7
35°	15863.9	15695.6	15609.3	15383.5	15317.9	15592.9	15334.3	15252.2	14628.1	13367.7	8383.6
37.5°	16044.5	16097.9	16081.5	15798.2	15937.8	16680.9	17013.4	16800.0	16471.5	15194.7	9348.4
40°	16204.7	16241.6	16159.5	16492.0	16890.3	17736.0	18939.0	18585.9	18462.7	17046.3	10690.9
42.5°	16295.0	16266.2	16266.2	16841.0	17444.5	19144.2	20798.8	20564.8	20470.3	19017.0	12242.8
45°	15904.9	15625.8	15925.5	16705.5	17920.8	19838.1	22285.0	22609.3	22473.8	21361.2	14057.4
47.5°	14447.5	14619.9	14788.2	15831.0	17341.9	19624.6	23196.4	24300.8	24551.3	23331.9	15248.1
50°	12242.8	12205.8	12554.8	13868.6	15703.8	18704.9	23019.9	24789.4	25245.1	23923.1	15498.5
52.5°	8905.0	9175.9	9553.6	10859.2	13035.2	16323.7	20741.3	23529.0	24136.6	23196.4	15334.3
55°	5185.3	4885.6	5735.5	6839.9	8892.6	12312.6	17534.9	20856.3	21981.2	21874.4	14504.9
57.5°	2077.4	2011.7	2303.2	3103.8	4639.3	7632.2	12751.9	17136.6	18939.0	20035.1	12747.8
60°	911.4	890.9	1046.9	1264.5	1896.8	3518.5	6975.3	10658.0	12538.4	14000.0	8773.6
62.5°	656.9	648.7	726.7	804.7	1001.8	1531.4	2931.4	4294.4	5353.7	6466.3	3929.0
65°	529.6	550.1	603.5	644.6	739.0	849.9	1034.6	1194.7	1465.7	1519.1	866.3
67.5°	431.1	447.5	496.8	541.9	558.4	459.8	476.2	418.8	418.8	373.6	299.7
70°	316.1	320.2	377.7	431.1	344.9	184.8	324.3	324.3	291.5	279.2	254.5
72.5°	234.0	238.1	283.3	266.9	135.5	115.0	238.1	262.8	238.1	225.8	205.3
75°	172.4	176.5	147.8	61.6	57.5	73.9	139.6	180.6	172.4	168.3	156.0
77.5°	32.8	24.6	20.5	28.7	41.1	61.6	90.3	110.9	115.0	123.2	115.0
80°	4.1	4.1	12.3	24.6	45.2	65.7	94.4	106.7	110.9	115.0	106.7
82.5°	0.0	4.1	12.3	24.6	45.2	61.6	82.1	94.4	102.6	106.7	102.6
85°	0.0	4.1	8.2	20.5	37.0	45.2	41.1	28.7	24.6	28.7	20.5
87.5°	0.0	0.0	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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°	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5	2586.5
2.5°	2619.3	2602.9	2545.4	2483.9	2430.5	2455.1	2430.5	2410.0	2418.2	2410.0	2401.8
5°	2763.0	2689.1	2566.0	2512.6	2467.4	2463.3	2451.0	2446.9	2451.0	2451.0	2414.1
7.5°	2898.5	2779.5	2648.1	2590.6	2537.2	2541.3	2512.6	2512.6	2508.5	2488.0	2479.8
10°	3103.8	2943.7	2775.4	2672.7	2607.0	2594.7	2566.0	2537.2	2537.2	2537.2	2496.2
12.5°	3329.6	3128.4	2898.5	2779.5	2701.5	2639.9	2594.7	2586.5	2541.3	2533.1	2512.6
15°	3526.7	3272.1	2980.6	2816.4	2717.9	2635.8	2566.0	2520.8	2500.3	2488.0	2471.5
17.5°	3719.6	3395.3	3025.8	2816.4	2709.7	2615.2	2541.3	2500.3	2451.0	2459.2	2426.4
20°	3978.3	3526.7	3038.1	2763.0	2631.7	2541.3	2442.8	2422.3	2393.5	2368.9	2377.1
22.5°	4228.7	3621.1	3001.2	2697.4	2508.5	2401.8	2352.5	2327.9	2315.5	2295.0	2266.3
25°	4454.5	3723.7	2943.7	2578.3	2377.1	2299.1	2254.0	2249.8	2221.1	2221.1	2167.7
27.5°	4684.4	3760.7	2845.2	2438.7	2262.2	2217.0	2196.5	2188.3	2175.9	2147.2	2110.3
30°	4947.2	3773.0	2701.5	2295.0	2159.5	2110.3	2139.0	2159.5	2106.2	2052.8	2069.2
32.5°	5164.8	3744.3	2529.0	2159.5	2085.6	2061.0	2118.5	2139.0	2077.4	2019.9	1991.2
35°	5427.6	3674.5	2360.7	2052.8	2011.7	2061.0	2110.3	2110.3	1987.1	1917.3	1900.9
37.5°	5825.8	3596.5	2204.7	1962.5	1933.7	2036.4	2102.0	2056.9	1863.9	1777.7	1757.2
40°	6252.8	3547.2	2052.8	1872.1	1892.7	1995.3	2032.3	1892.7	1695.6	1642.2	1625.8
42.5°	6872.7	3448.7	1917.3	1794.1	1855.7	1937.8	1937.8	1687.4	1613.5	1584.7	1580.6
45°	7644.6	3378.9	1798.2	1728.4	1802.3	1822.9	1757.2	1580.6	1527.3	1519.1	1523.2
47.5°	8022.3	3243.4	1675.1	1650.4	1703.8	1707.9	1535.5	1494.4	1449.3	1436.9	1428.7
50°	7964.8	3001.2	1515.0	1547.8	1621.7	1580.6	1400.0	1408.2	1367.2	1363.0	1342.5
52.5°	7562.4	2619.3	1354.8	1432.8	1515.0	1395.9	1289.1	1280.9	1280.9	1227.6	1207.0
55°	6704.4	2110.3	1161.9	1260.4	1358.9	1174.2	1145.5	1137.2	1116.7	1067.4	1055.1
57.5°	5308.5	1547.8	874.5	981.2	1153.7	997.7	993.5	956.6	903.2	866.3	866.3
60°	3157.2	890.9	550.1	599.4	763.6	808.8	899.1	882.7	792.4	734.9	718.5
62.5°	1441.1	459.8	349.0	357.2	410.6	525.5	706.2	817.0	689.7	591.2	583.0
65°	484.5	340.8	287.4	275.1	283.3	316.1	422.9	578.9	550.1	455.7	439.3
67.5°	295.6	303.8	271.0	250.4	250.4	246.3	242.2	262.8	324.3	316.1	320.2
70°	254.5	279.2	250.4	225.8	217.6	205.3	172.4	143.7	123.2	143.7	151.9
72.5°	205.3	221.7	213.5	193.0	172.4	156.0	123.2	94.4	69.8	61.6	61.6
75°	151.9	164.2	172.4	147.8	131.4	110.9	90.3	61.6	37.0	24.6	24.6
77.5°	110.9	123.2	127.3	115.0	98.5	78.0	57.5	41.1	20.5	8.2	8.2
80°	94.4	110.9	123.2	115.0	102.6	73.9	53.4	28.7	16.4	4.1	4.1
82.5°	90.3	110.9	123.2	110.9	98.5	69.8	53.4	32.8	12.3	4.1	4.1
85°	20.5	28.7	37.0	45.2	53.4	53.4	41.1	24.6	12.3	4.1	4.1
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	4.1	4.1	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)