

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: P533714

Luminaire Tested: **GALN-SA9A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-830-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29728 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

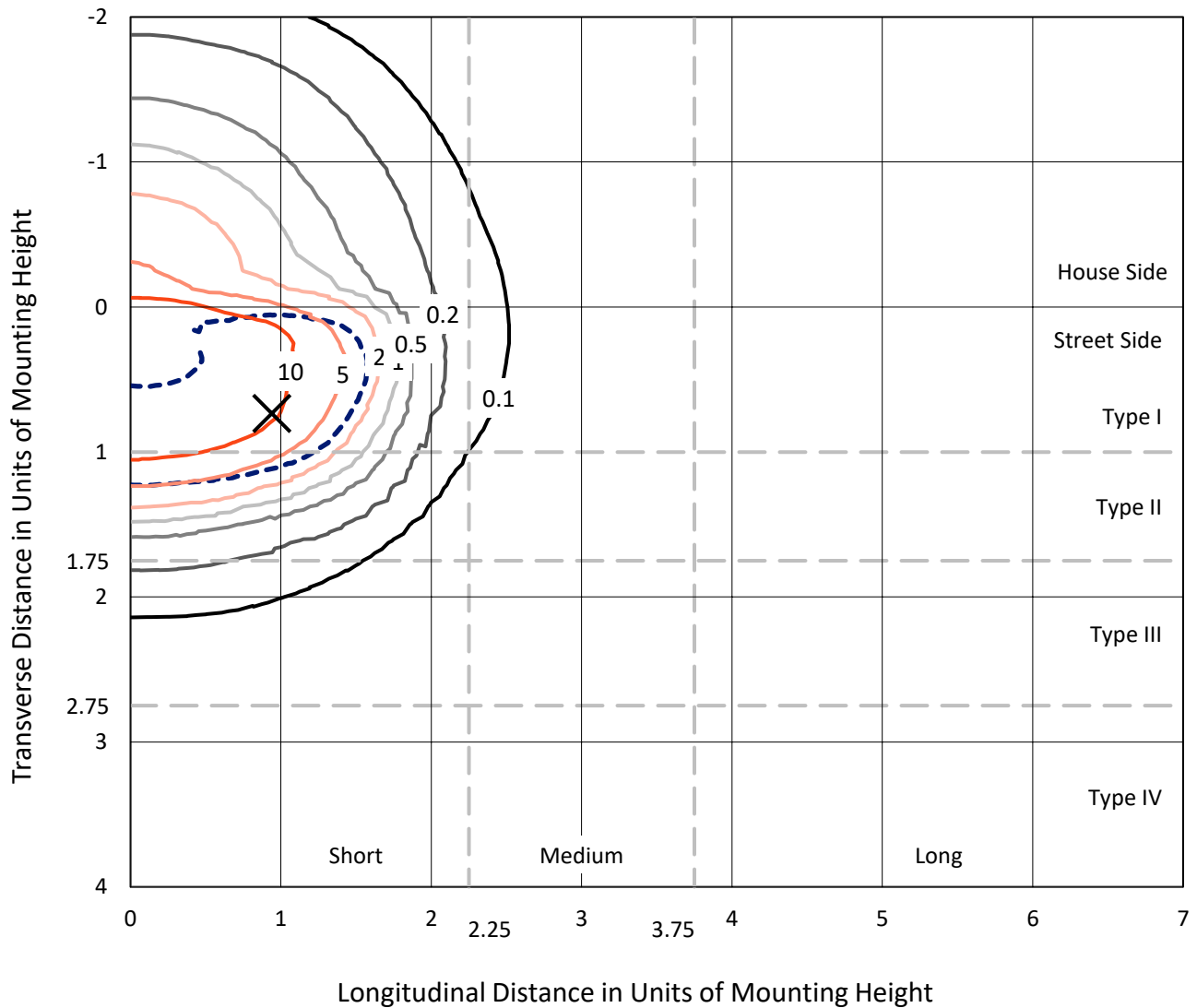
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

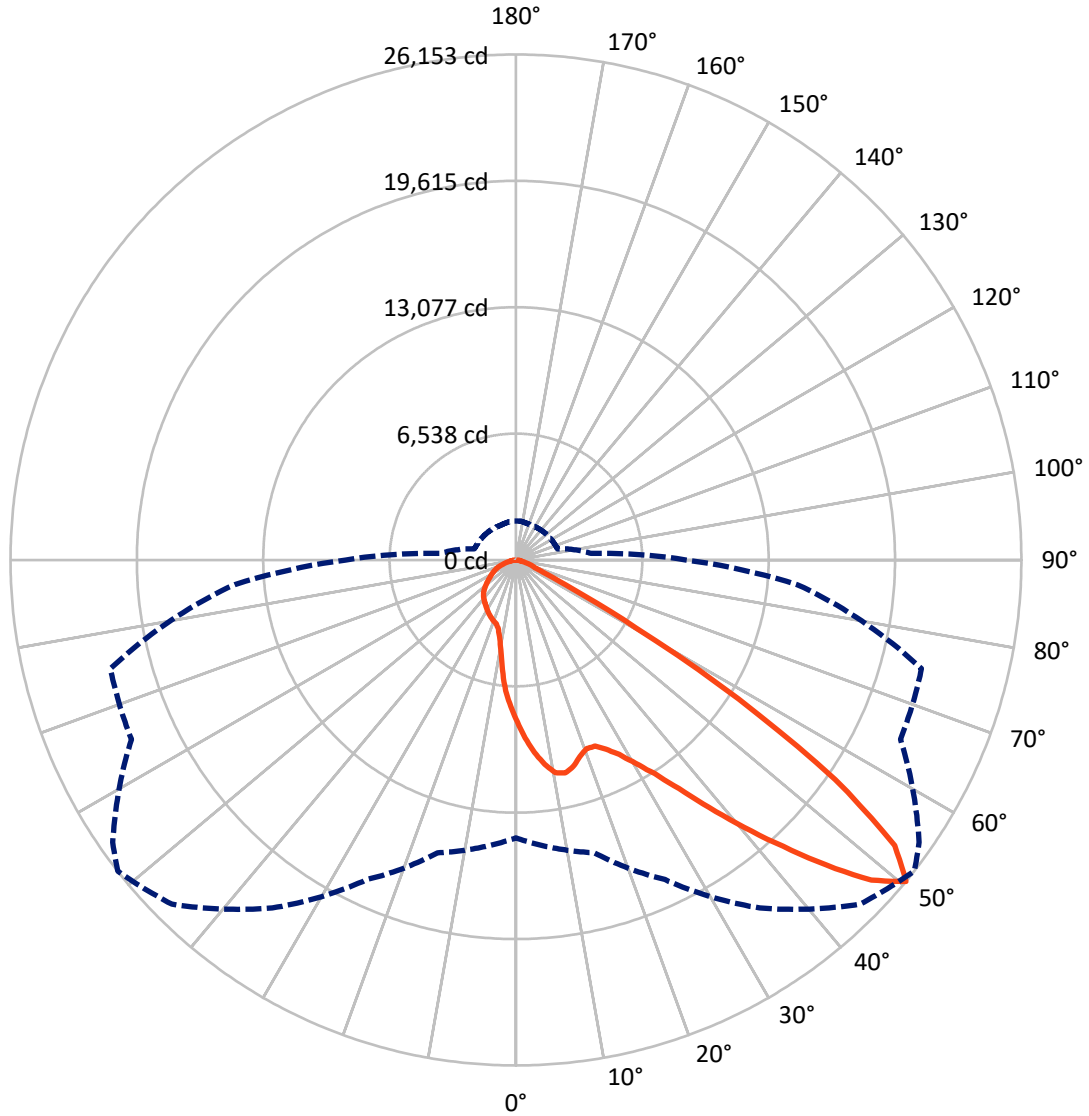
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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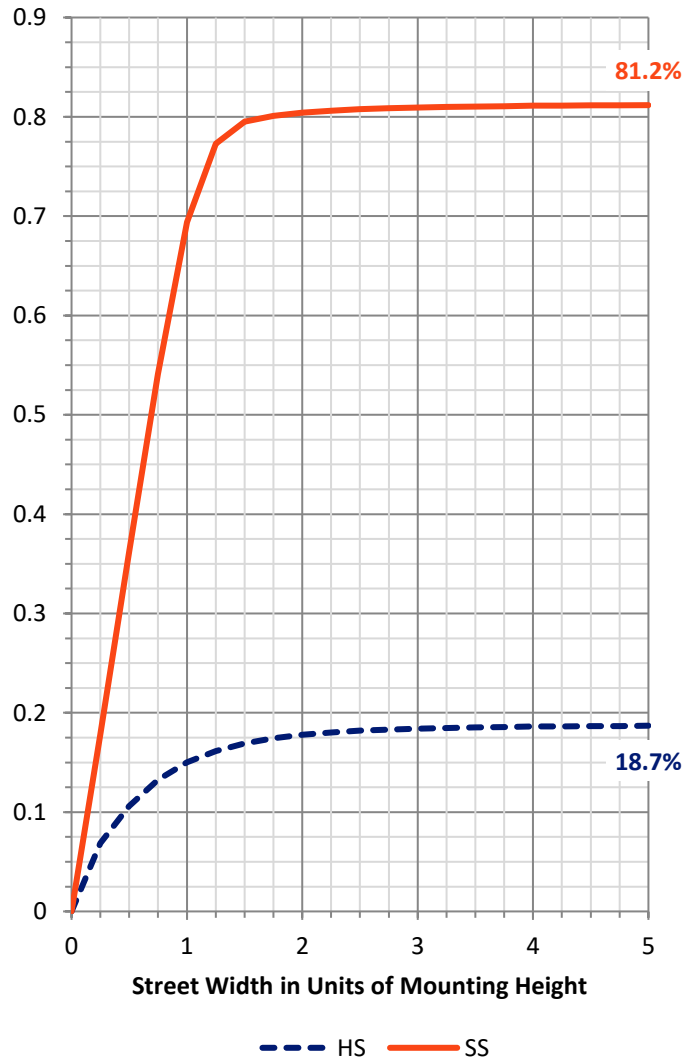
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5588.2	0.0	5588.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	24139.8	0.0	24139.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	29728.0	0.0	29728.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	772.4	2.6
10°-20°	2070.1	7.0
20°-30°	3487.1	11.7
30°-40°	5851.6	19.7
40°-50°	8951.5	30.1
50°-60°	6526.3	22.0
60°-70°	1452.4	4.9
70°-80°	523.9	1.8
80°-90°	92.7	0.3
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°	29728.0	100.0
0°-180°	29728.0	100.0

**Coefficient of Utilization**



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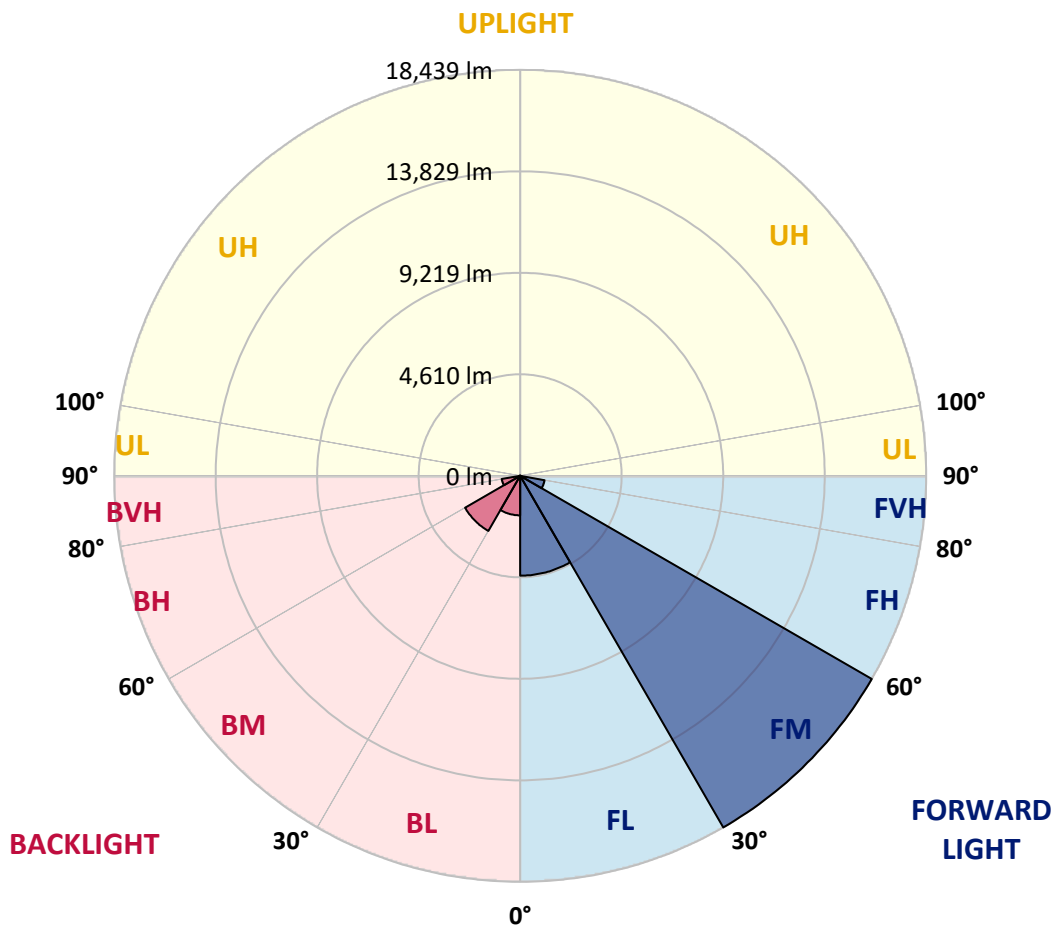
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4534.5	15.3			
FM (30°-60°)	18438.8	62.0			
FH (60°-80°)	1124.9	3.8			G1/1800
FVH (80°-90°)	41.6	0.1			G1/100
BL (0°-30°)	1795.0	6.0	B3/2500		
BM (30°-60°)	2890.6	9.7	B3/5000		
BH (60°-80°)	851.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	51.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8
2.5°	9866.6	9676.8	9698.2	9562.1	9415.2	9372.2	9221.8	9078.4	8971.0	8741.7	8530.3
5°	10783.8	10726.5	10640.5	10533.0	10421.9	10149.7	9995.6	9816.5	9422.4	9067.7	8716.6
7.5°	10916.4	10905.6	10952.2	10952.2	10991.6	10887.7	10669.1	10543.8	10124.6	9547.8	8895.7
10°	9984.9	10017.1	10242.8	10536.6	10945.0	11228.0	11192.2	11160.0	10701.4	9913.2	9107.1
12.5°	9243.3	9171.6	9304.2	9554.9	10167.6	10851.9	11314.0	11317.6	11199.4	10497.2	9261.2
15°	8824.1	8874.2	8910.1	9028.3	9490.5	10282.2	11095.5	11335.5	11855.0	10909.2	9504.8
17.5°	9092.8	8924.4	8917.2	8945.9	9182.3	9777.1	10690.6	11102.6	12213.3	11439.4	9805.7
20°	9443.9	9440.3	9340.0	9304.2	9300.6	9830.8	10425.5	10984.4	12403.2	12127.3	10110.3
22.5°	10060.1	10060.1	9895.3	9816.5	9648.1	10081.6	10461.4	10841.1	12718.4	12600.2	10257.1
25°	11091.9	10923.5	10640.5	10447.0	10350.3	10504.3	10841.1	11181.5	12994.3	13101.8	10561.7
27.5°	12044.9	11779.8	11640.0	11306.9	11177.9	11088.3	11396.4	11740.4	13316.7	13882.8	10726.5
30°	13126.8	13080.3	12829.5	12399.6	12080.7	11915.9	12198.9	12539.3	13907.9	14681.7	11106.2
32.5°	15061.5	14638.7	14298.4	13771.7	13252.2	12901.1	13180.6	13406.3	14889.5	15516.5	11521.8
35°	17150.2	17014.0	16426.5	15477.1	14681.7	14366.4	14531.2	14699.6	16032.4	16791.9	12220.4
37.5°	19203.0	19016.7	18533.1	17734.1	16766.8	16125.5	16243.8	16440.8	17315.0	18511.6	13073.1
40°	20679.1	20449.8	20206.2	20087.9	19127.8	18250.0	18182.0	18232.1	19049.0	20123.8	14018.9
42.5°	20786.6	21069.6	21144.8	21621.3	21395.6	20675.5	20256.3	20267.1	20704.2	21718.1	14975.5
45°	20560.9	20299.3	20854.6	22155.1	22900.3	23237.1	22531.3	22441.8	21728.8	22642.4	15452.0
47.5°	18192.7	18264.4	19203.0	21259.5	23412.7	24917.4	24752.6	24455.2	22276.9	22610.1	15376.8
50°	14380.8	14814.3	15684.9	18246.5	21979.6	25182.5	26153.4	25465.5	21950.9	21721.6	14610.1
52.5°	9576.4	9755.6	10328.8	13635.6	17673.2	22509.8	24541.2	24698.8	21650.0	20557.3	13639.2
55°	4263.4	4249.0	5055.1	7122.3	11088.3	17128.7	20052.1	21012.3	20492.8	19371.4	12693.3
57.5°	1805.7	1866.6	2196.2	3077.5	5452.8	10336.0	13585.4	14427.4	15760.1	15907.0	9737.7
60°	1221.7	1228.9	1318.4	1540.5	2282.2	4854.5	7125.9	8136.2	9089.2	9024.7	5166.2
62.5°	960.2	985.2	1053.3	1142.9	1354.2	2203.3	3188.6	3751.0	3811.9	3206.5	1959.7
65°	820.4	824.0	892.1	967.3	1060.5	1282.6	1537.0	1565.6	1583.5	1526.2	1440.2
67.5°	677.1	684.3	738.0	824.0	910.0	981.6	1053.3	1089.1	1171.5	1332.7	1311.3
70°	537.4	548.1	594.7	666.4	745.2	788.2	877.8	910.0	985.2	1110.6	1160.8
72.5°	408.4	412.0	451.4	501.6	573.2	616.2	691.5	727.3	777.4	884.9	931.5
75°	293.8	304.5	333.2	358.3	369.0	397.7	469.3	508.7	580.4	627.0	630.5
77.5°	154.1	161.2	168.4	168.4	204.2	258.0	304.5	326.0	376.2	412.0	394.1
80°	60.9	64.5	82.4	111.1	143.3	186.3	218.5	229.3	272.3	293.8	304.5
82.5°	35.8	39.4	53.7	78.8	103.9	132.6	157.6	168.4	197.0	222.1	229.3
85°	17.9	21.5	32.2	50.2	68.1	82.4	78.8	75.2	75.2	71.7	75.2
87.5°	7.2	7.2	10.7	10.7	10.7	14.3	17.9	17.9	17.9	21.5	21.5
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°	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8	8379.8
2.5°	8390.6	8247.3	8114.7	7871.1	7606.0	7530.7	7222.6	7111.6	7032.8	6939.6	6910.9
5°	8433.6	8243.7	7817.4	7326.5	6936.0	6434.4	6104.8	5750.2	5492.2	5427.7	5409.8
7.5°	8523.1	8197.1	7462.7	6721.1	5922.1	5241.4	4721.9	4442.5	4195.3	4181.0	4155.9
10°	8623.5	8057.4	7075.7	5911.4	4890.3	4259.8	3948.1	3826.3	3765.4	3751.0	3743.9
12.5°	8705.9	8028.7	6642.2	5123.2	4159.5	3779.7	3686.6	3675.8	3700.9	3708.0	3722.4
15°	8741.7	7914.1	6119.2	4417.4	3704.5	3564.7	3604.2	3647.1	3665.1	3711.6	3675.8
17.5°	8809.7	7767.2	5474.3	3858.5	3450.1	3475.2	3543.2	3593.4	3622.1	3654.3	3607.7
20°	8845.6	7634.6	4868.8	3525.3	3360.5	3407.1	3500.3	3539.7	3575.5	3589.8	3536.1
22.5°	8813.3	7362.4	4335.0	3256.6	3274.5	3335.5	3417.9	3460.8	3439.3	3382.0	3349.8
25°	8727.3	6979.0	3779.7	3084.7	3152.7	3260.2	3324.7	3292.5	3253.1	3220.8	3210.1
27.5°	8723.8	6509.7	3378.4	2927.0	3048.8	3195.7	3174.2	3145.6	3163.5	3138.4	3109.7
30°	8741.7	6054.7	3048.8	2837.5	2973.6	3045.3	3070.3	3041.7	3063.2	3016.6	3030.9
32.5°	8648.5	5610.4	2833.9	2733.6	2884.0	2880.5	2962.9	2984.4	2934.2	2837.5	2851.8
35°	8687.9	5252.2	2651.2	2687.0	2783.7	2783.7	2848.2	2823.1	2690.6	2633.3	2647.6
37.5°	8960.2	4901.1	2561.6	2622.5	2687.0	2715.7	2694.2	2586.7	2554.4	2554.4	2561.6
40°	9218.2	4600.1	2507.9	2608.2	2597.4	2615.3	2457.7	2468.4	2468.4	2472.0	2454.1
42.5°	9447.5	4395.9	2464.9	2522.2	2540.1	2447.0	2350.2	2339.5	2364.6	2361.0	2346.6
45°	9529.9	4227.5	2404.0	2425.5	2439.8	2285.7	2239.2	2217.7	2246.3	2257.1	2271.4
47.5°	9214.6	4087.8	2335.9	2292.9	2264.2	2163.9	2103.0	2063.6	2099.4	2160.3	2174.7
50°	8809.7	3905.1	2228.4	2146.0	2085.1	2042.1	1999.1	1959.7	1984.8	2027.8	2017.0
52.5°	8211.4	3618.5	2092.3	2006.3	1902.4	1913.1	1873.7	1852.2	1866.6	1866.6	1855.8
55°	7358.8	2973.6	1863.0	1802.1	1716.1	1744.8	1751.9	1723.3	1694.6	1719.7	1698.2
57.5°	5022.9	2099.4	1662.4	1662.4	1576.4	1615.8	1612.2	1544.1	1476.1	1483.2	1468.9
60°	2905.5	1673.1	1533.4	1519.0	1429.5	1461.7	1468.9	1422.3	1318.4	1325.6	1311.3
62.5°	1651.6	1429.5	1339.9	1318.4	1300.5	1329.2	1329.2	1268.3	1178.7	1185.9	1171.5
65°	1404.4	1325.6	1196.6	1193.0	1185.9	1193.0	1164.4	1099.9	1021.1	988.8	992.4
67.5°	1275.4	1225.3	1099.9	1067.6	1046.1	1042.6	988.8	927.9	892.1	863.4	859.8
70°	1117.8	1078.4	985.2	942.2	920.7	870.6	816.8	777.4	727.3	712.9	727.3
72.5°	884.9	881.3	845.5	798.9	752.4	712.9	666.4	612.6	566.1	555.3	530.2
75°	612.6	619.8	627.0	619.8	580.4	530.2	476.5	433.5	376.2	343.9	336.8
77.5°	401.3	412.0	422.8	408.4	383.3	336.8	300.9	247.2	204.2	179.1	175.6
80°	293.8	308.1	315.3	304.5	275.9	240.0	200.6	157.6	125.4	103.9	103.9
82.5°	225.7	240.0	247.2	229.3	200.6	172.0	143.3	111.1	86.0	68.1	64.5
85°	78.8	75.2	89.6	93.1	111.1	103.9	86.0	64.5	50.2	35.8	32.2
87.5°	21.5	21.5	25.1	25.1	21.5	17.9	17.9	17.9	14.3	10.7	10.7
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)