

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: P529181

Luminaire Tested: **GALN-SA4B-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13690 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

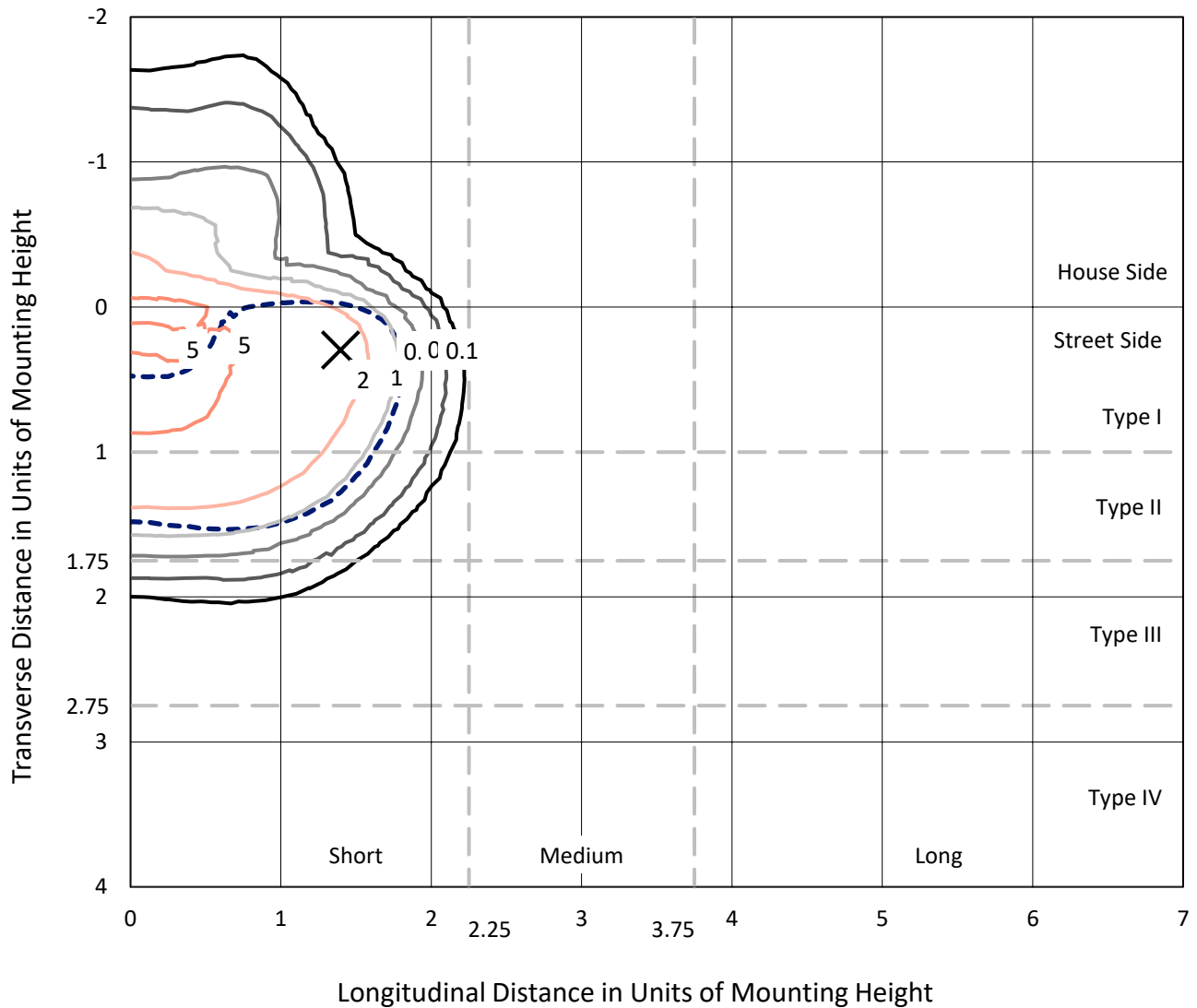
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

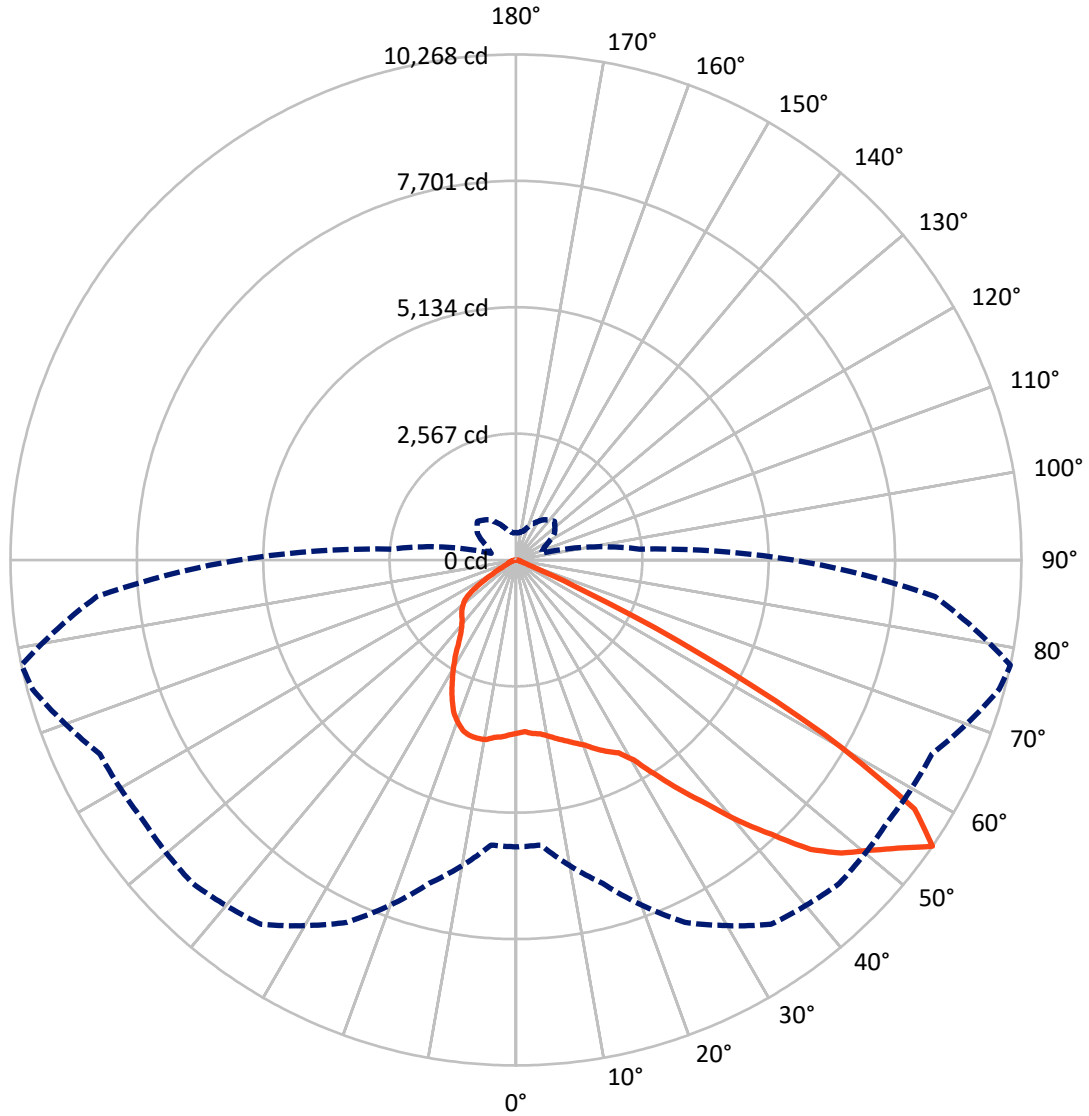
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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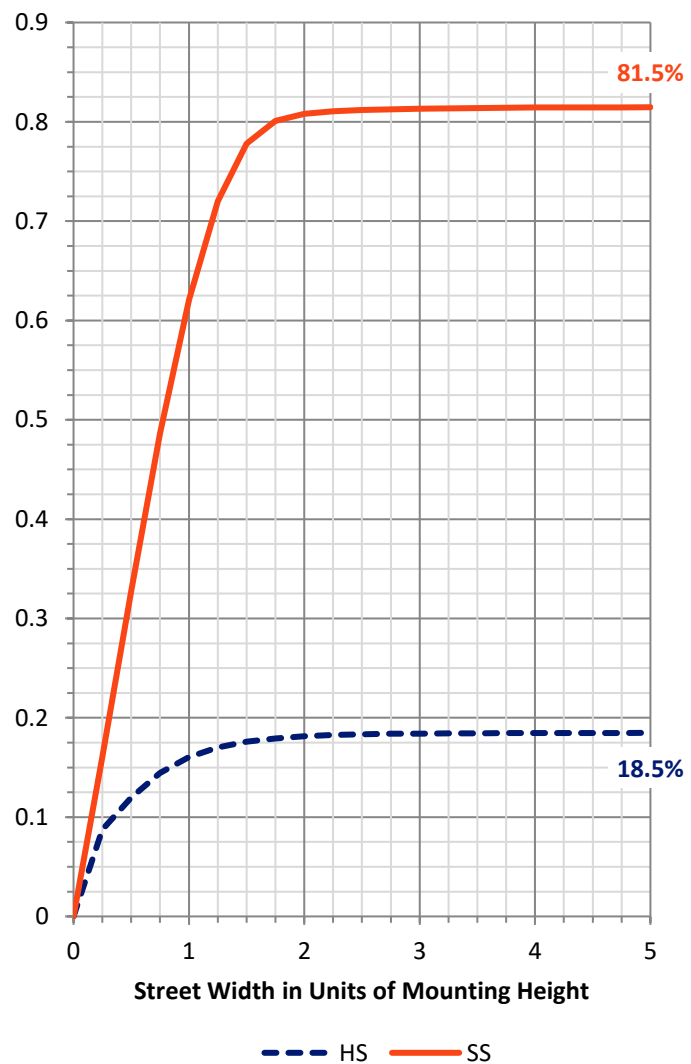
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2542.8	0.0	2542.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	11147.2	0.0	11147.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13690.0	0.0	13690.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.8	2.3
10°-20°	830.6	6.1
20°-30°	1455.9	10.6
30°-40°	2400.6	17.5
40°-50°	3493.1	25.5
50°-60°	3958.1	28.9
60°-70°	1131.7	8.3
70°-80°	87.9	0.6
80°-90°	18.3	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°	13690.0	100.0
0°-180°	13690.0	100.0



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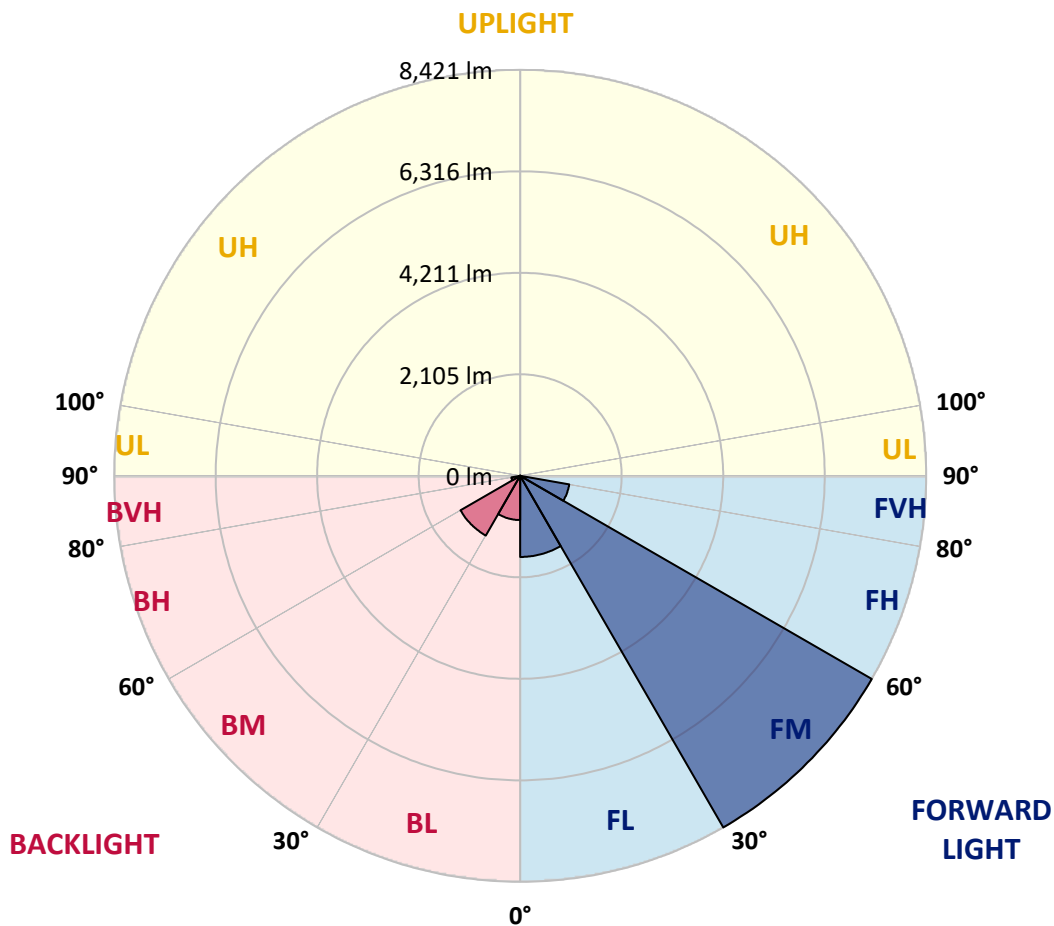
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1682.9	12.3			
FM (30°-60°)	8421.5	61.5			
FH (60°-80°)	1033.9	7.6			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	917.4	6.7	B2/1000		
BM (30°-60°)	1430.3	10.4	B2/2500		
BH (60°-80°)	185.6	1.4	B1/500		G1/500
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7
2.5°	3309.2	3341.0	3345.9	3385.1	3382.6	3448.7	3468.3	3470.8	3514.8	3492.8	3549.1
5°	3216.2	3199.1	3191.7	3260.3	3279.8	3338.6	3387.5	3416.9	3507.5	3539.3	3598.0
7.5°	3133.0	3133.0	3137.9	3199.1	3191.7	3267.6	3319.0	3409.6	3541.7	3568.7	3639.6
10°	3052.2	3022.8	3059.6	3123.2	3177.0	3211.3	3319.0	3404.7	3558.9	3637.2	3735.1
12.5°	3010.6	3025.3	3030.2	3076.7	3135.4	3238.2	3297.0	3438.9	3681.3	3727.8	3833.0
15°	3272.5	3243.1	3172.1	3130.5	3179.5	3228.4	3375.3	3519.7	3744.9	3811.0	3928.5
17.5°	3576.0	3551.5	3492.8	3380.2	3270.0	3360.6	3475.6	3607.8	3813.4	3911.3	4085.1
20°	3972.5	3933.4	3874.6	3654.3	3558.9	3461.0	3583.3	3740.0	3926.0	4014.1	4192.8
22.5°	4444.9	4444.9	4312.7	4045.9	3847.7	3754.7	3806.1	3896.6	4050.8	4170.8	4347.0
25°	4936.9	4922.2	4802.3	4525.7	4190.4	4080.2	4139.0	4202.6	4244.2	4310.3	4427.8
27.5°	5499.8	5414.2	5262.4	4956.5	4660.3	4447.4	4511.0	4454.7	4403.3	4437.6	4606.5
30°	5881.7	5935.5	5742.2	5448.4	5169.4	4932.0	4944.2	4895.3	4660.3	4709.3	4809.6
32.5°	6278.2	6312.5	6204.8	6043.2	5764.2	5487.6	5387.3	5345.6	5169.4	5191.4	5093.5
35°	6608.6	6674.7	6579.3	6508.3	6427.5	6204.8	5928.2	6062.8	5778.9	5725.0	5470.5
37.5°	6912.1	6892.6	7005.1	6931.7	6914.6	6757.9	6454.4	6481.4	6290.4	6278.2	5984.5
40°	7183.8	7188.7	7342.9	7377.2	7308.7	7029.6	6589.0	6802.0	6956.2	6970.9	6593.9
42.5°	7409.0	7475.1	7607.3	7883.9	7781.0	7316.0	6728.6	6961.1	7533.8	7624.4	7171.6
45°	7604.8	7739.4	7903.4	8150.6	8091.9	7722.3	7076.1	7289.1	8150.6	8388.1	7715.0
47.5°	7617.1	7793.3	7972.0	8339.1	8412.5	7940.1	7435.9	7808.0	8640.2	8897.2	8111.5
50°	7568.1	7661.1	8018.5	8417.4	8583.9	8295.1	7940.1	8243.7	9115.0	9276.6	8312.2
52.5°	6988.0	7059.0	7776.2	8490.9	8892.3	8696.5	8608.4	8850.7	9599.6	9719.6	8500.7
55°	5825.4	5813.1	6799.5	8121.3	9034.2	9291.2	9237.4	9323.1	10160.2	10267.9	8547.2
57.5°	3984.8	4207.5	5059.3	6762.8	8165.3	9151.7	9208.0	9066.1	9506.6	9548.2	7450.6
60°	2149.0	2242.0	2927.4	4513.4	6217.0	7458.0	7604.8	7347.8	7313.5	7196.1	5318.7
62.5°	854.2	900.7	1289.9	2234.7	3387.5	4533.0	4848.8	4743.5	4518.3	4209.9	2753.6
65°	406.3	435.7	641.3	1045.1	1502.9	1889.6	2205.3	2303.2	1698.7	1529.8	908.1
67.5°	276.6	298.6	467.5	597.2	536.0	560.5	729.4	678.0	399.0	340.2	252.1
70°	210.5	225.2	374.5	406.3	239.9	168.9	188.5	176.2	164.0	166.4	164.0
72.5°	149.3	161.5	274.1	239.9	105.2	78.3	100.4	119.9	119.9	119.9	117.5
75°	90.6	102.8	159.1	93.0	41.6	41.6	63.6	80.8	85.7	88.1	83.2
77.5°	46.5	58.7	53.8	26.9	26.9	31.8	46.5	56.3	61.2	61.2	58.7
80°	9.8	9.8	9.8	14.7	26.9	34.3	46.5	51.4	58.7	58.7	53.8
82.5°	0.0	2.4	7.3	14.7	24.5	31.8	44.1	51.4	58.7	61.2	56.3
85°	0.0	2.4	4.9	9.8	17.1	19.6	17.1	14.7	14.7	14.7	14.7
87.5°	0.0	0.0	2.4	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7	3519.7
2.5°	3554.0	3561.3	3549.1	3546.6	3536.8	3566.2	3495.2	3478.1	3522.2	3480.5	3490.3
5°	3600.5	3617.6	3595.6	3558.9	3505.0	3421.8	3350.8	3257.8	3213.8	3181.9	3177.0
7.5°	3634.7	3647.0	3625.0	3507.5	3345.9	3135.4	2978.8	2863.7	2773.2	2746.3	2702.2
10°	3774.3	3776.7	3666.6	3407.1	3091.4	2814.8	2574.9	2398.7	2308.1	2251.8	2227.4
12.5°	3867.3	3862.4	3639.6	3208.9	2787.9	2420.7	2146.6	1933.6	1850.4	1823.5	1806.4
15°	3984.8	3957.8	3576.0	3005.7	2396.2	1999.7	1752.5	1605.7	1598.3	1581.2	1598.3
17.5°	4077.8	4001.9	3483.0	2636.1	2021.8	1647.3	1485.7	1495.5	1515.1	1532.2	1534.7
20°	4229.5	4072.9	3270.0	2313.0	1674.2	1412.3	1409.8	1453.9	1502.9	1522.4	1542.0
22.5°	4344.6	4102.2	3042.4	1967.9	1390.3	1316.8	1358.4	1424.5	1461.2	1480.8	1510.2
25°	4386.2	4021.5	2738.9	1622.8	1253.2	1272.8	1336.4	1380.5	1427.0	1449.0	1436.8
27.5°	4427.8	3979.9	2376.7	1336.4	1179.8	1243.4	1297.2	1341.3	1356.0	1385.4	1404.9
30°	4528.1	3835.5	2051.1	1155.3	1143.0	1223.8	1263.0	1277.7	1316.8	1334.0	1334.0
32.5°	4608.9	3779.2	1706.0	1069.6	1138.2	1233.6	1238.5	1238.5	1243.4	1231.2	1226.3
35°	4775.3	3585.8	1397.6	1018.2	1135.7	1236.1	1248.3	1206.7	1094.1	1050.0	1037.8
37.5°	4980.9	3461.0	1170.0	1006.0	1152.8	1265.4	1285.0	1128.4	981.5	910.5	898.3
40°	5230.6	3372.8	1020.7	1001.1	1192.0	1334.0	1275.2	1067.2	876.3	773.5	768.6
42.5°	5521.9	3292.1	920.3	998.6	1241.0	1404.9	1265.4	1015.8	768.6	700.0	709.8
45°	5754.4	3248.0	851.8	981.5	1258.1	1446.6	1272.8	925.2	724.5	680.4	685.3
47.5°	5935.5	3155.0	795.5	952.1	1255.6	1461.2	1206.7	888.5	702.5	714.7	726.9
50°	5940.4	3030.2	724.5	888.5	1218.9	1434.3	1130.8	854.2	697.6	749.0	773.5
52.5°	5874.3	2853.9	648.6	797.9	1133.3	1341.3	1062.3	839.5	675.5	670.7	700.0
55°	5639.4	2523.5	521.3	646.2	957.0	1106.3	1001.1	812.6	609.5	553.2	558.1
57.5°	4557.5	1808.8	384.3	462.6	678.0	810.2	903.2	800.4	548.3	469.9	472.4
60°	2822.1	1025.6	281.5	315.7	418.5	492.0	731.8	744.1	489.5	396.5	391.6
62.5°	1449.0	506.7	217.8	222.7	257.0	288.8	501.8	624.1	443.0	376.9	376.9
65°	484.6	249.7	190.9	171.3	171.3	178.7	303.5	433.2	374.5	315.7	315.7
67.5°	208.0	186.0	166.4	149.3	137.1	129.7	171.3	252.1	279.0	239.9	230.1
70°	161.5	156.6	144.4	124.8	107.7	97.9	100.4	129.7	159.1	154.2	149.3
72.5°	119.9	119.9	115.0	97.9	83.2	71.0	66.1	68.5	75.9	78.3	80.8
75°	83.2	85.7	85.7	75.9	61.2	51.4	44.1	36.7	29.4	24.5	22.0
77.5°	56.3	58.7	63.6	56.3	46.5	34.3	26.9	19.6	12.2	4.9	4.9
80°	49.0	56.3	61.2	56.3	49.0	36.7	26.9	14.7	7.3	0.0	0.0
82.5°	51.4	56.3	63.6	53.8	46.5	34.3	26.9	17.1	7.3	2.4	0.0
85°	12.2	12.2	14.7	17.1	22.0	24.5	19.6	12.2	7.3	2.4	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	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)