

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: P459477

Luminaire Tested: **GALN-SA9B-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47966 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

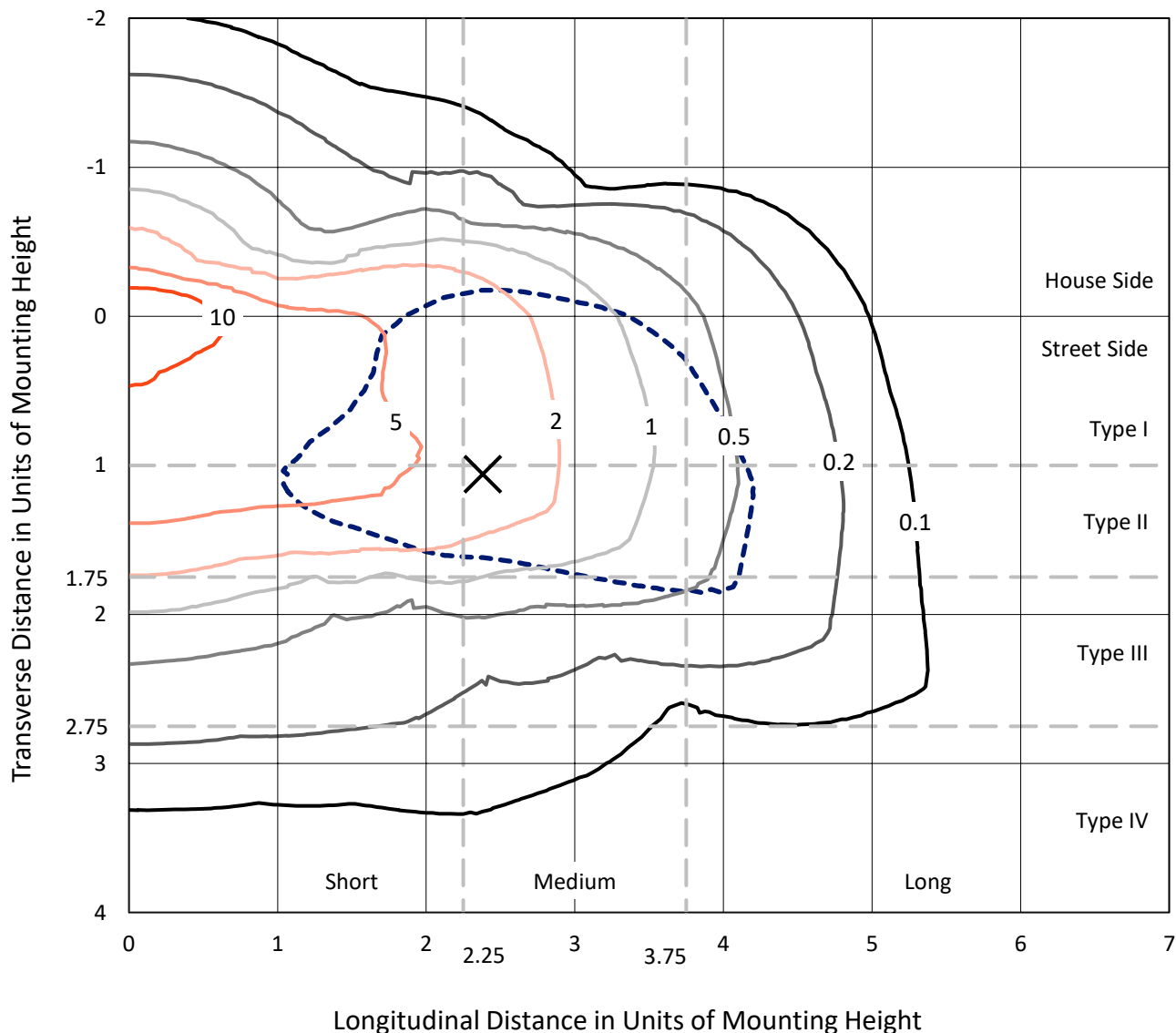
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

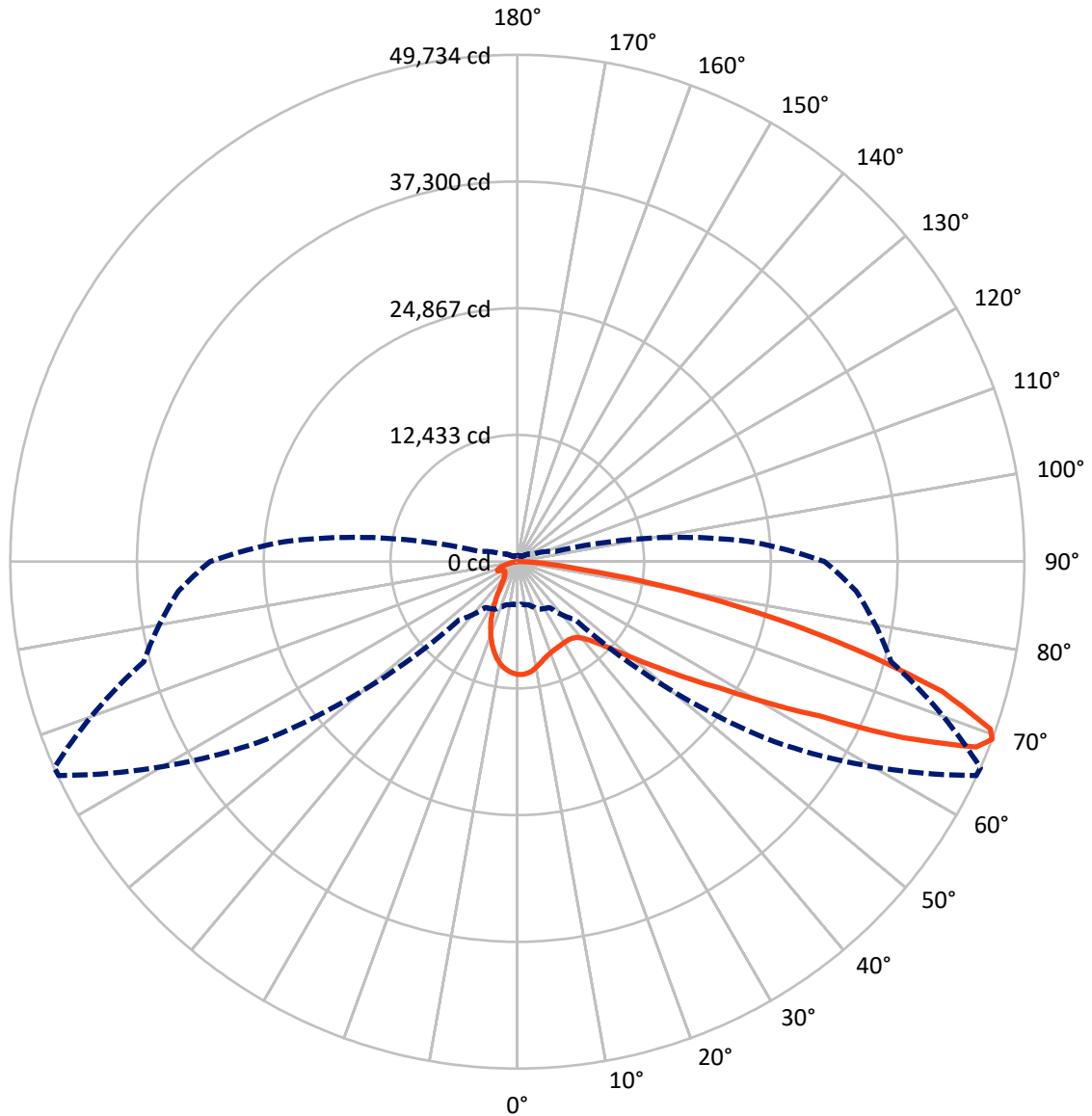
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9020.6	0.0	9020.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	38945.4	0.0	38945.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	47966.0	0.0	47966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	961.9	2.0
10°-20°	2281.5	4.8
20°-30°	3106.0	6.5
30°-40°	4173.8	8.7
40°-50°	6232.1	13.0
50°-60°	9913.3	20.7
60°-70°	12192.8	25.4
70°-80°	7933.2	16.5
80°-90°	1171.5	2.4
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°	47966.0	100.0
0°-180°	47966.0	100.0

**Coefficient of Utilization**



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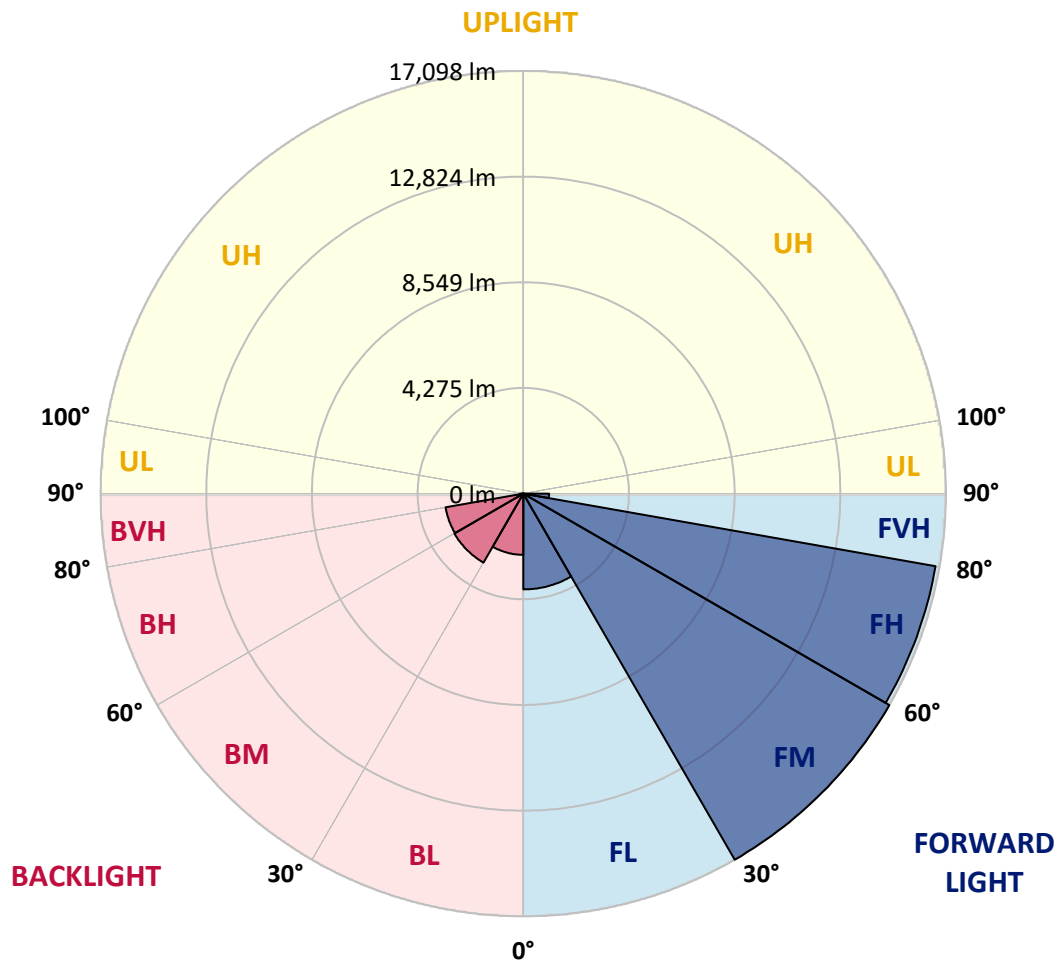
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3873.2	8.1			
FM	(30°-60°)	17098.4	35.6			
FH	(60°-80°)	16932.2	35.3			G5
FVH	(80°-90°)	1041.5	2.2			G5
BL	(0°-30°)	2476.2	5.2	B3/2500		
BM	(30°-60°)	3220.8	6.7	B3/5000		
BH	(60°-80°)	3193.7	6.7	B4/5000		G4/5000
BVH	(80°-90°)	130.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7
2.5°	10688.9	10731.4	10779.2	10832.3	10933.2	10989.0	11028.9	11074.0	11079.3	11103.2	11084.7
5°	9900.0	9950.4	10022.1	10123.1	10274.5	10510.9	10755.3	10954.5	10978.4	11090.0	11121.8
7.5°	9241.2	9270.4	9328.9	9490.9	9706.0	9969.0	10325.0	10728.7	10787.1	11052.8	11145.7
10°	8704.6	8733.8	8802.9	8970.3	9182.8	9512.1	9902.6	10433.9	10481.7	10938.6	11151.1
12.5°	8303.5	8330.1	8404.5	8569.2	8813.5	9121.7	9552.0	10115.1	10184.2	10787.1	11100.6
15°	7998.1	8048.5	8109.6	8245.1	8502.7	8800.3	9217.3	9822.9	9878.7	10627.8	11066.1
17.5°	7867.9	7891.8	7934.3	8059.1	8247.7	8539.9	8959.6	9594.5	9660.9	10516.2	11058.1
20°	7873.2	7897.1	7905.1	7974.1	8109.6	8362.0	8776.3	9413.9	9493.5	10417.9	11071.4
22.5°	8053.8	8056.5	8027.3	8003.4	8056.5	8266.3	8646.2	9278.4	9371.4	10375.4	11082.0
25°	8332.7	8380.6	8338.1	8226.5	8128.2	8229.2	8595.7	9204.0	9291.7	10314.3	11068.7
27.5°	8784.3	8792.3	8757.8	8606.3	8351.3	8277.0	8574.5	9148.2	9222.6	10269.2	11002.3
30°	9389.9	9366.0	9334.2	9166.8	8765.7	8460.2	8619.6	9097.8	9174.8	10202.8	10922.6
32.5°	10003.5	10077.9	10048.7	9852.1	9331.5	8816.2	8765.7	9092.4	9156.2	10152.3	10835.0
35°	10654.3	10688.9	10827.0	10726.1	10192.1	9392.6	9039.3	9174.8	9225.3	10155.0	10773.9
37.5°	11164.3	11257.3	11581.4	11669.0	11167.0	10155.0	9482.9	9408.5	9429.8	10285.1	10797.8
40°	11780.6	11940.0	12357.0	12715.6	12386.2	11145.7	10237.3	9841.5	9868.1	10598.6	10954.5
42.5°	12561.5	12673.1	13233.6	13719.7	13666.6	12455.3	11151.1	10550.7	10564.0	11222.8	11392.8
45°	13475.3	13634.7	14264.2	14994.7	15119.5	13937.5	12471.2	11623.9	11615.9	12192.3	12210.9
47.5°	14644.1	14742.3	15366.6	16163.5	16668.1	15799.5	14073.0	13164.5	13079.5	13605.5	13454.1
50°	15719.9	15873.9	16346.7	17218.0	18474.4	17980.4	16179.4	15162.0	14962.8	15454.2	15199.2
52.5°	16171.4	16333.5	16731.9	17813.0	20023.0	20801.3	18854.3	17544.7	17212.7	17589.9	17496.9
55°	15387.8	15597.7	15969.5	17284.4	20703.0	24055.3	22461.5	20299.3	20057.6	19895.5	19922.1
57.5°	13281.4	13480.6	13982.7	15433.0	19890.2	26416.7	27612.0	23840.1	23322.1	22575.7	22703.2
60°	10109.8	10234.6	10495.0	12102.0	17481.0	27030.3	33461.1	28315.9	27986.6	25245.3	25335.6
62.5°	7179.9	7320.7	7501.3	8303.5	12798.0	25301.1	38040.6	34566.2	33389.4	28010.5	27922.8
65°	5830.5	5734.9	5952.7	6327.3	7509.3	19608.6	39071.2	43241.6	41621.2	31652.2	30435.6
67.5°	4794.6	4693.6	4908.8	5575.5	5711.0	11382.2	35357.7	48872.9	48548.8	35612.7	32988.3
69°	4244.7	4191.6	4380.2	5139.9	5482.6	8083.1	30802.2	49656.5	49733.5	37947.6	33381.5
70°	3825.0	3846.3	4029.6	4919.4	5379.0	6664.6	26326.4	48575.4	49228.8	39113.7	32956.4
72.5°	2815.7	2860.8	3115.8	4074.7	5280.7	5655.2	15666.7	42428.7	43584.2	39182.8	30148.8
75°	1968.3	1947.1	2172.8	3068.0	4988.5	5604.7	9201.3	32813.0	34122.6	33867.6	25332.9
77.5°	1288.3	1322.8	1503.5	2167.5	4196.9	5562.2	5997.9	23279.6	24129.6	22650.1	14984.1
80°	908.4	905.8	1006.7	1479.5	3113.2	5344.4	4911.5	14673.3	14458.1	8901.2	4444.0
82.5°	520.6	557.8	674.7	1041.3	2082.5	4704.3	4518.3	7017.9	6406.9	2536.7	1500.8
85°	289.5	302.8	401.1	629.5	1216.6	3543.5	3944.6	3192.8	3012.2	1059.9	645.5
87.5°	93.0	100.9	167.3	318.8	552.5	1673.5	2233.9	1474.2	1360.0	382.5	260.3
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°	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7	11076.7
2.5°	11092.6	11124.5	11039.5	10957.1	10882.8	10779.2	10686.2	10609.2	10556.1	10548.1	10521.5
5°	11129.8	11132.5	10970.4	10752.6	10540.1	10306.4	10064.6	9892.0	9729.9	9639.6	9594.5
7.5°	11156.4	11132.5	10840.3	10487.0	10077.9	9652.9	9227.9	8887.9	8624.9	8521.3	8561.2
10°	11145.7	11071.4	10643.7	10077.9	9482.9	8848.1	8237.1	7759.0	7320.7	7094.9	7100.2
12.5°	11087.3	10965.1	10351.5	9618.4	8744.5	7894.5	6959.5	6314.0	5806.6	5506.5	5413.5
15°	11036.8	10824.3	10008.9	8994.2	7907.7	6693.8	5554.3	4757.4	4332.4	4096.0	4093.3
17.5°	10983.7	10688.9	9634.3	8332.7	6946.2	5384.3	4189.0	3580.7	3381.4	3405.3	3365.5
20°	10927.9	10529.5	9243.8	7597.0	5774.7	4016.3	3137.1	2890.0	2945.8	3054.7	3070.7
22.5°	10864.2	10359.5	8824.2	6786.8	4542.2	3022.8	2544.7	2507.5	2651.0	2821.0	2844.9
25°	10765.9	10147.0	8295.6	5939.4	3503.6	2435.8	2228.6	2255.2	2396.0	2539.4	2555.3
27.5°	10627.8	9884.0	7761.6	4882.2	2632.4	2090.5	2037.4	2071.9	2141.0	2228.6	2249.9
30°	10441.8	9586.5	7148.0	3968.5	2109.1	1917.8	1896.6	1915.2	1955.0	1992.2	2002.8
32.5°	10255.9	9299.6	6529.1	3038.8	1880.6	1803.6	1782.4	1782.4	1782.4	1787.7	1790.3
35°	10083.2	9028.7	5865.1	2366.7	1761.1	1713.3	1684.1	1652.2	1646.9	1628.3	1628.3
37.5°	9987.6	8781.7	5158.5	1981.6	1673.5	1638.9	1599.1	1546.0	1516.7	1519.4	1514.1
40°	10006.2	8619.6	4515.7	1763.8	1601.7	1564.5	1503.5	1442.4	1423.8	1423.8	1418.5
42.5°	10216.0	8566.5	3899.4	1649.5	1532.7	1490.2	1413.1	1357.4	1346.7	1344.1	1349.4
45°	10699.5	8696.7	3346.9	1575.2	1474.2	1410.5	1333.5	1283.0	1272.4	1272.4	1269.7
47.5°	11642.5	9119.0	2951.1	1527.4	1431.7	1349.4	1269.7	1219.2	1200.6	1195.3	1195.3
50°	13108.7	10035.4	2656.3	1484.9	1378.6	1293.6	1211.3	1152.8	1123.6	1120.9	1118.3
52.5°	15146.1	11464.5	2542.1	1453.0	1320.2	1235.2	1144.9	1089.1	1051.9	1043.9	1038.6
55°	17528.8	13459.4	2698.8	1429.1	1259.1	1168.8	1075.8	1017.4	982.8	966.9	964.2
57.5°	20288.7	15855.3	3293.8	1397.2	1203.3	1097.0	1006.7	948.3	911.1	892.5	887.2
60°	22767.0	18317.7	4332.4	1378.6	1155.5	1020.0	927.0	873.9	839.4	820.8	818.1
62.5°	25489.7	20665.8	5572.9	1429.1	1134.2	945.6	852.7	804.9	775.6	757.0	757.0
65°	28398.3	23016.7	6393.7	1599.1	1166.1	887.2	773.0	733.1	706.6	693.3	690.6
67.5°	30358.6	23829.5	5267.4	1774.4	1245.8	823.4	695.9	664.1	648.1	634.9	634.9
69°	30146.1	22801.5	3886.1	1819.6	1269.7	791.6	653.4	629.5	608.3	603.0	597.7
70°	29474.1	21630.1	3256.6	1790.3	1251.1	762.4	626.9	597.7	579.1	573.8	571.1
72.5°	26252.0	18758.6	2425.2	1556.6	1065.2	661.4	555.2	528.6	512.7	504.7	504.7
75°	21810.7	15332.0	1893.9	1237.8	834.1	557.8	475.5	454.2	440.9	435.6	433.0
77.5°	12224.2	8561.2	1360.0	969.5	632.2	451.6	398.4	379.8	366.6	361.3	361.3
80°	3405.3	2446.4	799.5	640.2	430.3	342.7	316.1	302.8	284.2	270.9	278.9
82.5°	1283.0	1059.9	456.9	385.2	273.6	228.4	220.5	209.8	201.9	183.3	183.3
85°	624.2	515.3	292.2	204.5	151.4	119.5	114.2	108.9	103.6	90.3	93.0
87.5°	215.2	228.4	127.5	74.4	45.2	29.2	23.9	13.3	13.3	13.3	13.3
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)