

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: P647602

Luminaire Tested: **GALN-SA8D-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647602  
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-SA8D-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA 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: 48823.2 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

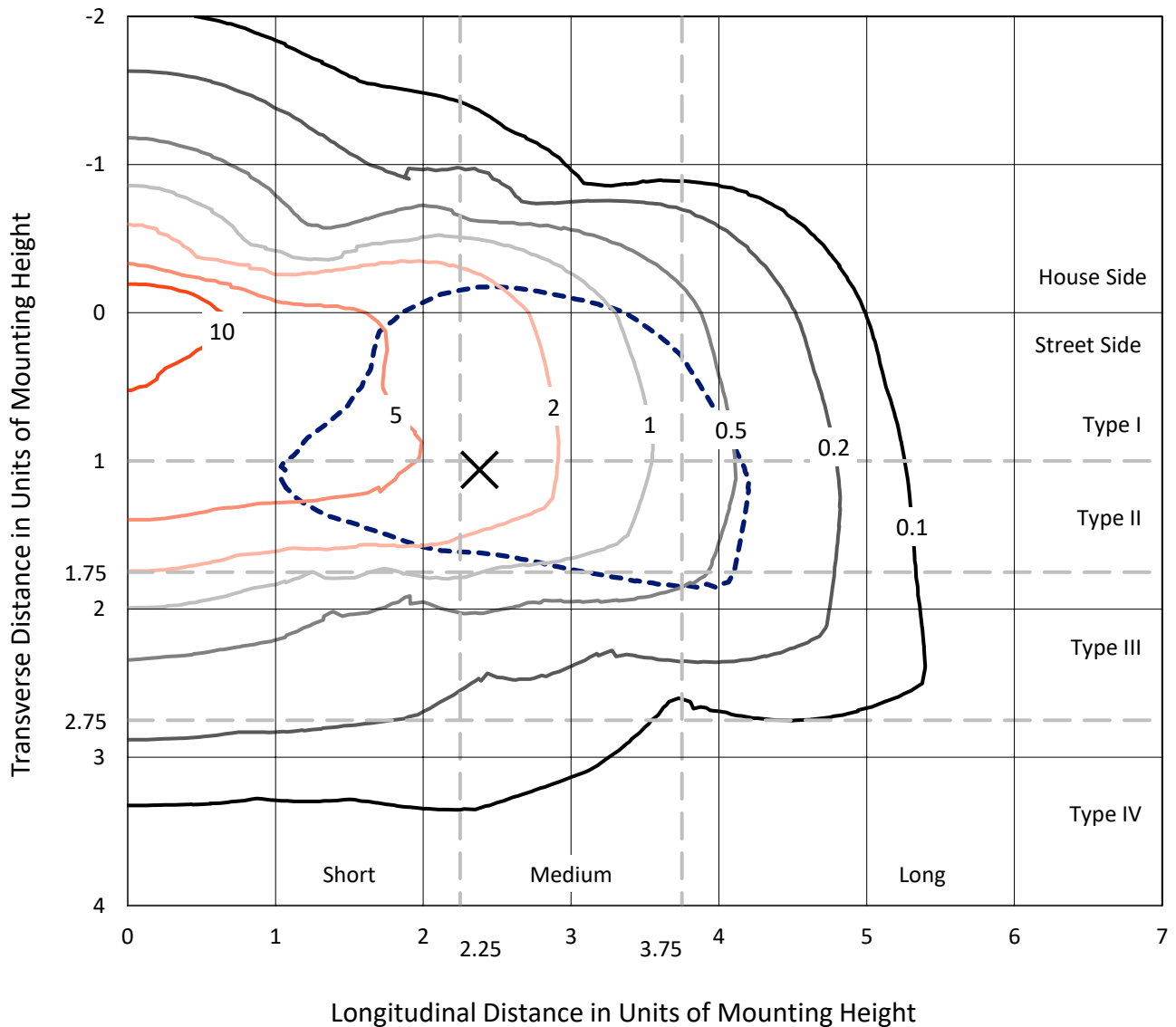
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

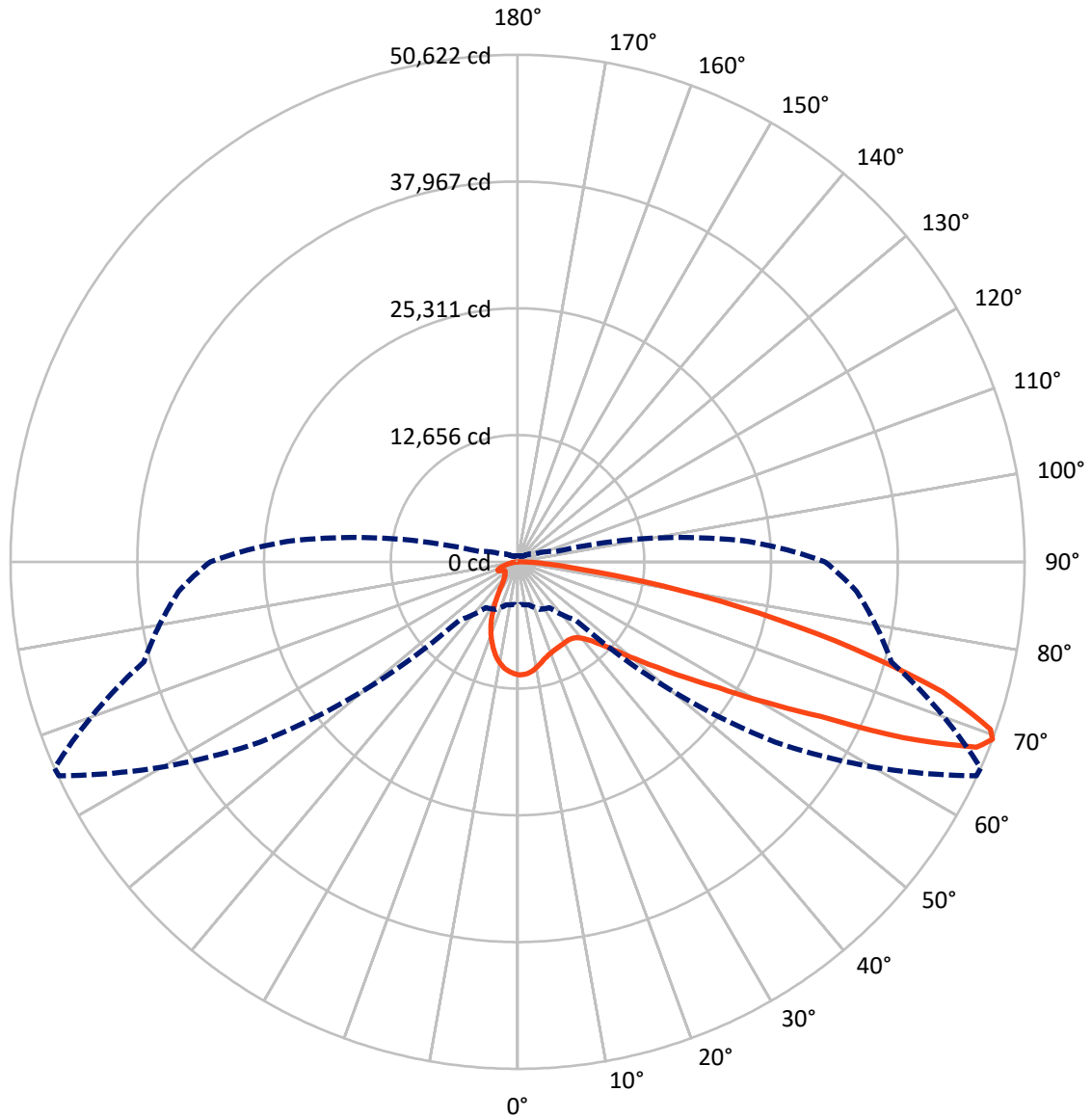
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	9181.8	0.0	9181.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	39641.4	0.0	39641.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	48823.2	0.0	48823.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	979.1	2.0
10°-20°	2322.3	4.8
20°-30°	3161.5	6.5
30°-40°	4248.4	8.7
40°-50°	6343.5	13.0
50°-60°	10090.4	20.7
60°-70°	12410.7	25.4
70°-80°	8074.9	16.5
80°-90°	1192.4	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°	48823.2	100.0
0°-180°	48823.2	100.0

**Coefficient of Utilization**

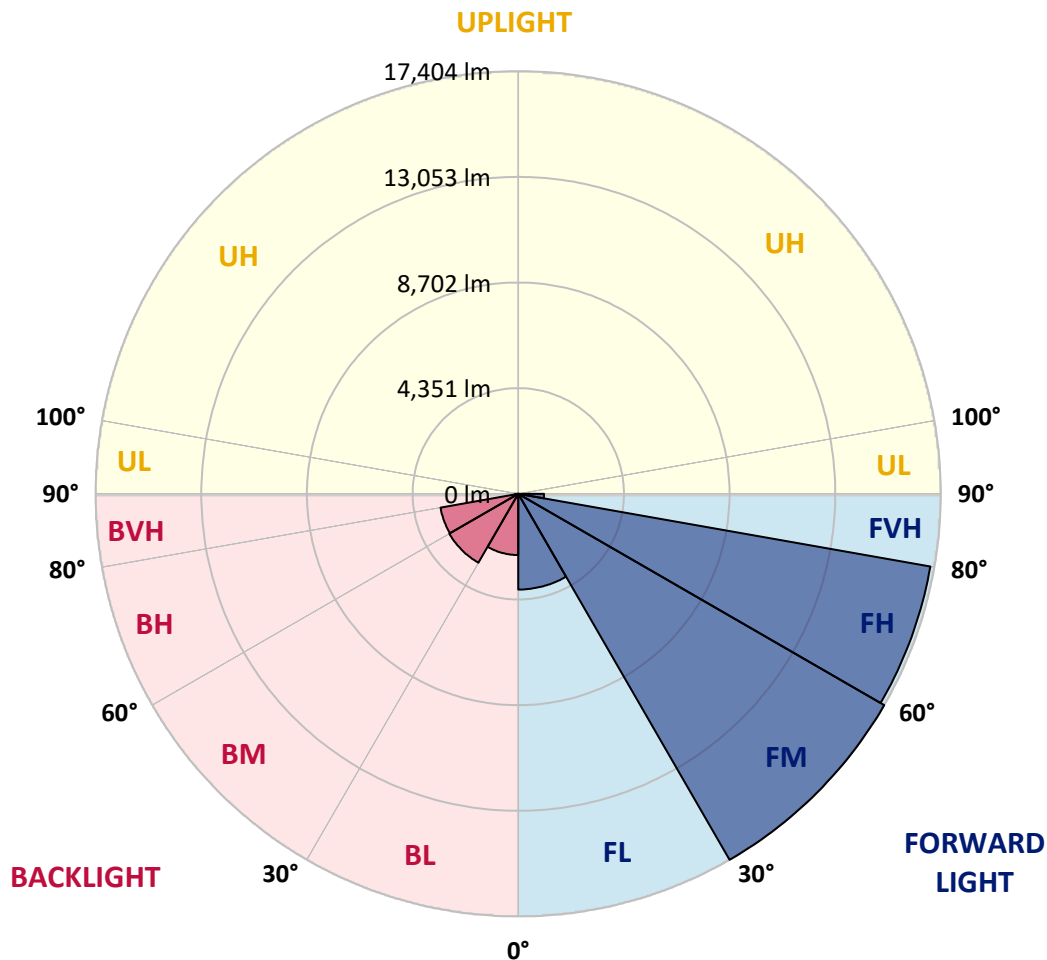


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3942.4	8.1			
FM (30°-60°)	17404.0	35.6			
FH (60°-80°)	17234.8	35.3			G5
FVH (80°-90°)	1060.1	2.2			G5
BL (0°-30°)	2520.4	5.2	B4/5000		
BM (30°-60°)	3278.3	6.7	B3/5000		
BH (60°-80°)	3250.8	6.7	B4/5000		G4/5000
BVH (80°-90°)	132.3	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°	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7
2.5°	10879.9	10923.2	10971.8	11025.9	11128.6	11185.4	11225.9	11271.9	11277.3	11301.7	11282.7
5°	10076.9	10128.3	10201.2	10304.0	10458.1	10698.8	10947.5	11150.2	11174.6	11288.1	11320.6
7.5°	9406.3	9436.1	9495.6	9660.5	9879.5	10147.1	10509.5	10920.4	10979.9	11250.3	11345.0
10°	8860.2	8889.9	8960.2	9130.6	9346.8	9682.1	10079.6	10620.3	10669.0	11134.0	11350.4
12.5°	8451.9	8479.0	8554.7	8722.3	8971.1	9284.7	9722.7	10295.9	10366.1	10979.9	11298.9
15°	8141.0	8192.4	8254.5	8392.4	8654.7	8957.5	9382.0	9998.4	10055.2	10817.7	11263.8
17.5°	8008.5	8032.8	8076.1	8203.2	8395.2	8692.6	9119.8	9766.0	9833.5	10704.2	11255.7
20°	8013.9	8038.3	8046.3	8116.7	8254.5	8511.4	8933.2	9582.1	9663.2	10604.1	11269.2
22.5°	8197.8	8200.4	8170.8	8146.4	8200.4	8414.0	8800.7	9444.2	9538.8	10560.9	11280.1
25°	8481.7	8530.3	8487.1	8373.5	8273.5	8376.2	8749.3	9368.5	9457.7	10498.6	11266.5
27.5°	8941.3	8949.4	8914.2	8760.1	8500.6	8424.8	8727.7	9311.7	9387.4	10452.7	11198.9
30°	9557.8	9533.4	9501.0	9330.6	8922.4	8611.4	8773.7	9260.3	9338.8	10385.1	11117.8
32.5°	10182.3	10258.0	10228.3	10028.2	9498.3	8973.7	8922.4	9254.9	9319.8	10333.7	11028.6
35°	10844.7	10879.9	11020.5	10917.8	10374.3	9560.4	9200.9	9338.8	9390.1	10336.5	10966.4
37.5°	11363.8	11458.5	11788.4	11877.6	11366.6	10336.5	9652.4	9576.6	9598.3	10468.9	10990.7
40°	11991.1	12153.3	12577.8	12942.8	12607.6	11345.0	10420.2	10017.4	10044.4	10787.9	11150.2
42.5°	12786.0	12899.6	13470.1	13964.9	13910.8	12677.9	11350.4	10739.3	10752.8	11423.3	11596.4
45°	13716.1	13878.4	14519.1	15262.6	15389.7	14186.6	12694.1	11831.6	11823.5	12410.2	12429.1
47.5°	14905.7	15005.8	15641.2	16452.3	16966.0	16081.9	14324.4	13399.8	13313.3	13848.6	13694.5
50°	16000.8	16157.6	16638.8	17525.7	18804.6	18301.7	16468.5	15433.0	15230.2	15730.4	15470.8
52.5°	16460.4	16625.4	17030.9	18131.3	20380.9	21173.0	19191.2	17858.3	17520.3	17904.2	17809.6
55°	15662.8	15876.4	16254.9	17593.3	21073.0	24485.1	22862.9	20662.0	20416.0	20251.0	20278.1
57.5°	13518.7	13721.5	14232.5	15708.8	20245.6	26888.8	28105.5	24266.1	23738.9	22979.2	23108.9
60°	10290.5	10417.6	10682.5	12318.3	17793.4	27513.4	34059.1	28821.9	28486.7	25696.4	25788.3
62.5°	7308.2	7451.5	7635.3	8451.9	13026.7	25753.2	38720.4	35183.9	33986.1	28511.0	28421.8
65°	5934.7	5837.4	6059.1	6440.3	7643.5	19959.1	39769.4	44014.3	42365.0	32217.9	30979.6
67.5°	4880.3	4777.6	4996.6	5675.2	5813.1	11585.6	35989.6	49746.3	49416.4	36249.1	33577.9
69°	4320.6	4266.5	4458.5	5231.8	5580.5	8227.5	31352.7	50543.9	50622.3	38625.8	33978.0
70°	3893.4	3915.0	4101.6	5007.4	5475.1	6783.7	26796.8	49443.5	50108.6	39812.7	33545.4
72.5°	2865.9	2911.9	3171.5	4147.6	5375.1	5756.3	15946.7	43187.0	44363.1	39883.0	30687.6
75°	2003.5	1981.9	2211.7	3122.8	5077.7	5704.9	9365.8	33399.4	34732.3	34472.7	25785.7
77.5°	1311.3	1346.4	1530.3	2206.3	4271.9	5661.6	6105.1	23695.6	24560.8	23054.9	15251.8
80°	924.6	922.0	1024.7	1506.0	3168.8	5440.0	4999.2	14935.5	14716.5	9060.2	4523.4
82.5°	529.9	567.8	686.8	1059.9	2119.7	4788.4	4599.1	7143.3	6521.5	2582.1	1527.6
85°	294.7	308.2	408.3	640.8	1238.3	3606.8	4015.1	3249.9	3066.1	1078.8	657.0
87.5°	94.7	102.7	170.3	324.5	562.4	1703.3	2273.8	1500.5	1384.3	389.3	265.0
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°	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7	11274.7
2.5°	11290.9	11323.3	11236.8	11153.0	11077.3	10971.8	10877.2	10798.7	10744.7	10736.6	10709.6
5°	11328.7	11331.4	11166.4	10944.8	10728.5	10490.6	10244.5	10068.8	9903.9	9811.9	9766.0
7.5°	11355.8	11331.4	11034.0	10674.4	10258.0	9825.4	9392.8	9046.7	8779.1	8673.6	8714.2
10°	11345.0	11269.2	10833.9	10258.0	9652.4	9006.2	8384.3	7897.7	7451.5	7221.7	7227.1
12.5°	11285.5	11161.0	10536.5	9790.2	8900.8	8035.5	7083.8	6426.8	5910.4	5604.9	5510.2
15°	11234.1	11017.7	10187.7	9154.9	8049.1	6813.4	5653.6	4842.4	4409.8	4169.2	4166.5
17.5°	11180.0	10879.9	9806.5	8481.7	7070.3	5480.5	4263.8	3644.6	3441.8	3466.2	3425.6
20°	11123.2	10717.6	9409.1	7732.8	5878.0	4088.0	3193.2	2941.7	2998.4	3109.3	3125.5
22.5°	11058.3	10544.6	8981.9	6908.1	4623.4	3076.9	2590.2	2552.3	2698.4	2871.4	2895.7
25°	10958.3	10328.3	8443.8	6045.5	3566.3	2479.4	2268.4	2295.5	2438.8	2584.8	2601.0
27.5°	10817.7	10060.6	7900.3	4969.5	2679.4	2127.9	2073.8	2108.9	2179.2	2268.4	2290.0
30°	10628.4	9757.8	7275.8	4039.4	2146.8	1952.1	1930.5	1949.4	1990.0	2027.8	2038.6
32.5°	10439.2	9465.8	6645.8	3093.1	1914.3	1835.8	1814.2	1814.2	1814.2	1819.6	1822.4
35°	10263.4	9190.1	5969.9	2409.1	1792.6	1743.9	1714.1	1681.7	1676.3	1657.4	1657.4
37.5°	10166.1	8938.6	5250.6	2017.0	1703.3	1668.2	1627.6	1573.6	1543.8	1546.6	1541.1
40°	10185.0	8773.7	4596.4	1795.3	1630.4	1592.5	1530.3	1468.1	1449.2	1449.2	1443.8
42.5°	10398.6	8719.6	3969.1	1679.1	1560.0	1516.8	1438.4	1381.6	1370.8	1368.1	1373.5
45°	10890.7	8852.0	3406.8	1603.3	1500.5	1435.7	1357.3	1305.9	1295.1	1295.1	1292.4
47.5°	11850.5	9282.0	3003.9	1554.6	1457.3	1373.5	1292.4	1241.1	1222.1	1216.7	1216.7
50°	13343.0	10214.8	2703.8	1511.4	1403.2	1316.7	1232.9	1173.4	1143.6	1141.0	1138.2
52.5°	15416.8	11669.4	2587.5	1478.9	1343.8	1257.3	1165.3	1108.6	1070.7	1062.6	1057.1
55°	17842.1	13699.9	2747.0	1454.6	1281.6	1189.6	1095.0	1035.5	1000.4	984.2	981.5
57.5°	20651.2	16138.6	3352.6	1422.2	1224.8	1116.6	1024.7	965.2	927.4	908.4	903.0
60°	23173.8	18645.0	4409.8	1403.2	1176.1	1038.3	943.6	889.6	854.4	835.5	832.7
62.5°	25945.2	21035.1	5672.4	1454.6	1154.5	962.5	867.9	819.3	789.5	770.6	770.6
65°	28905.8	23428.0	6507.9	1627.6	1186.9	903.0	786.8	746.2	719.2	705.6	703.0
67.5°	30901.2	24255.3	5361.5	1806.1	1268.1	838.1	708.4	676.0	659.7	646.2	646.2
69°	30684.8	23209.0	3955.6	1852.0	1292.4	805.7	665.2	640.8	619.2	613.7	608.3
70°	30000.8	22016.6	3314.8	1822.4	1273.5	776.0	638.1	608.3	589.4	584.0	581.3
72.5°	26721.1	19093.8	2468.5	1584.4	1084.2	673.2	565.1	538.1	521.8	513.7	513.7
75°	22200.5	15606.1	1927.7	1259.9	849.0	567.8	484.0	462.4	448.8	443.4	440.7
77.5°	12442.7	8714.2	1384.3	986.9	643.5	459.6	405.6	386.6	373.1	367.7	367.7
80°	3466.2	2490.2	813.9	651.6	438.0	348.7	321.7	308.2	289.3	275.8	283.9
82.5°	1305.9	1078.8	465.0	392.0	278.5	232.6	224.4	213.6	205.5	186.6	186.6
85°	635.4	524.5	297.4	208.2	154.1	121.7	116.3	110.9	105.5	91.9	94.7
87.5°	219.0	232.6	129.7	75.7	46.0	29.8	24.4	13.5	13.5	13.5	13.5
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)