

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: P455680

Luminaire Tested: **GALN-SA6D-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33424 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

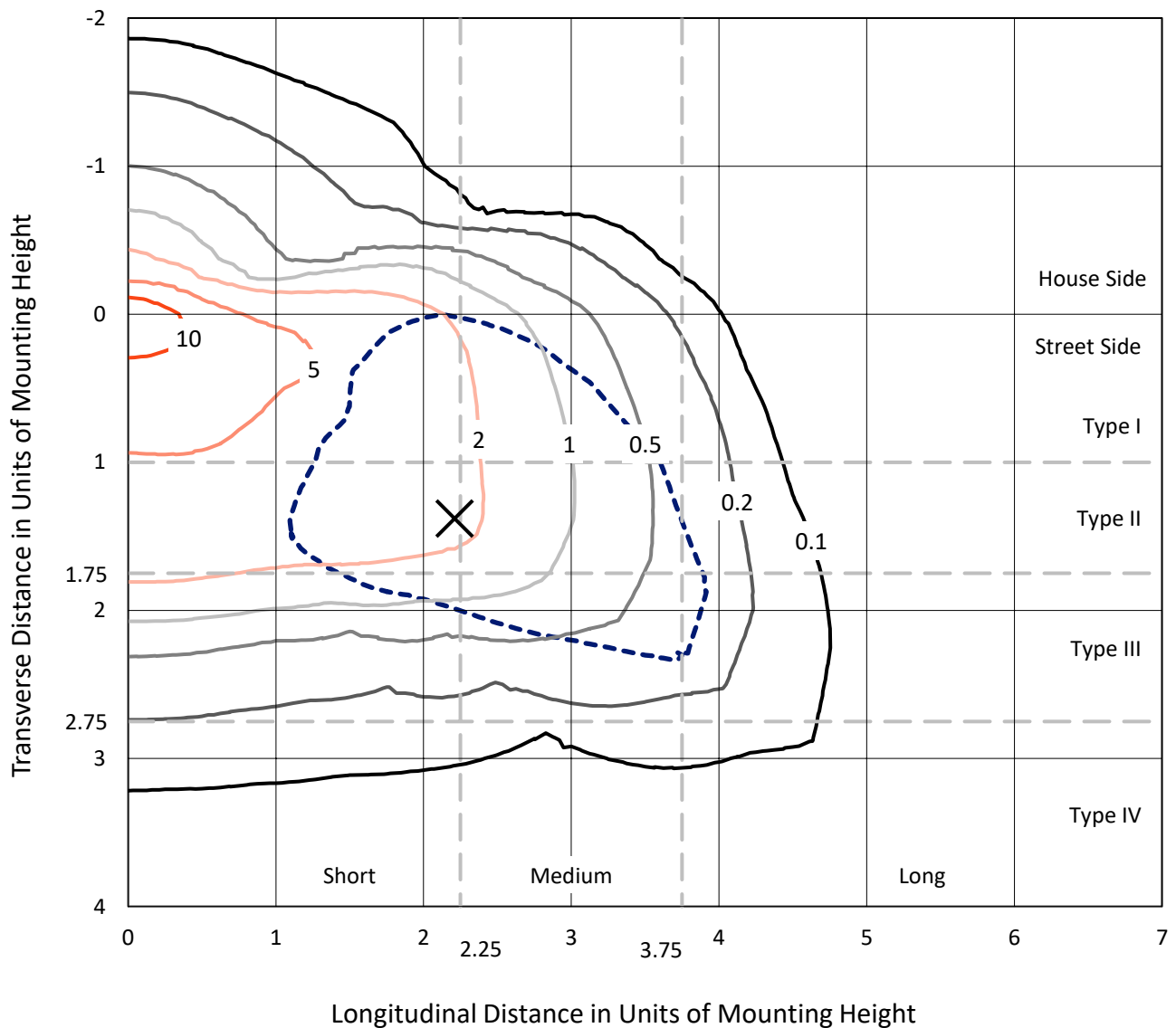
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

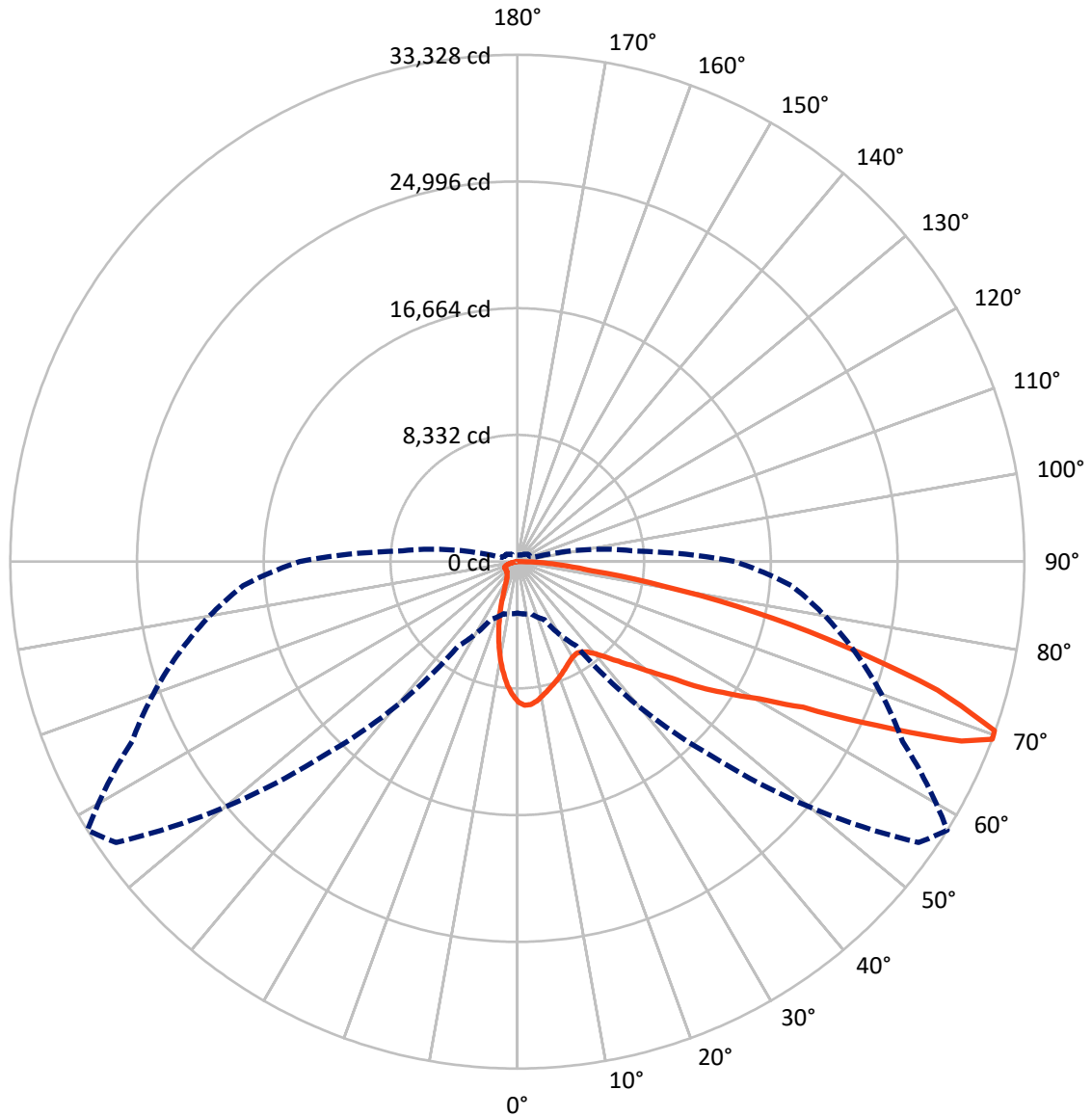
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4898.3	0.0	4898.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	28525.7	0.0	28525.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	33424.0	0.0	33424.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.4	2.3
10°-20°	1722.4	5.2
20°-30°	2225.4	6.7
30°-40°	2890.3	8.6
40°-50°	4202.1	12.6
50°-60°	6705.2	20.1
60°-70°	8957.3	26.8
70°-80°	5163.5	15.4
80°-90°	773.4	2.3
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°	33424.0	100.0
0°-180°	33424.0	100.0

**Coefficient of Utilization**



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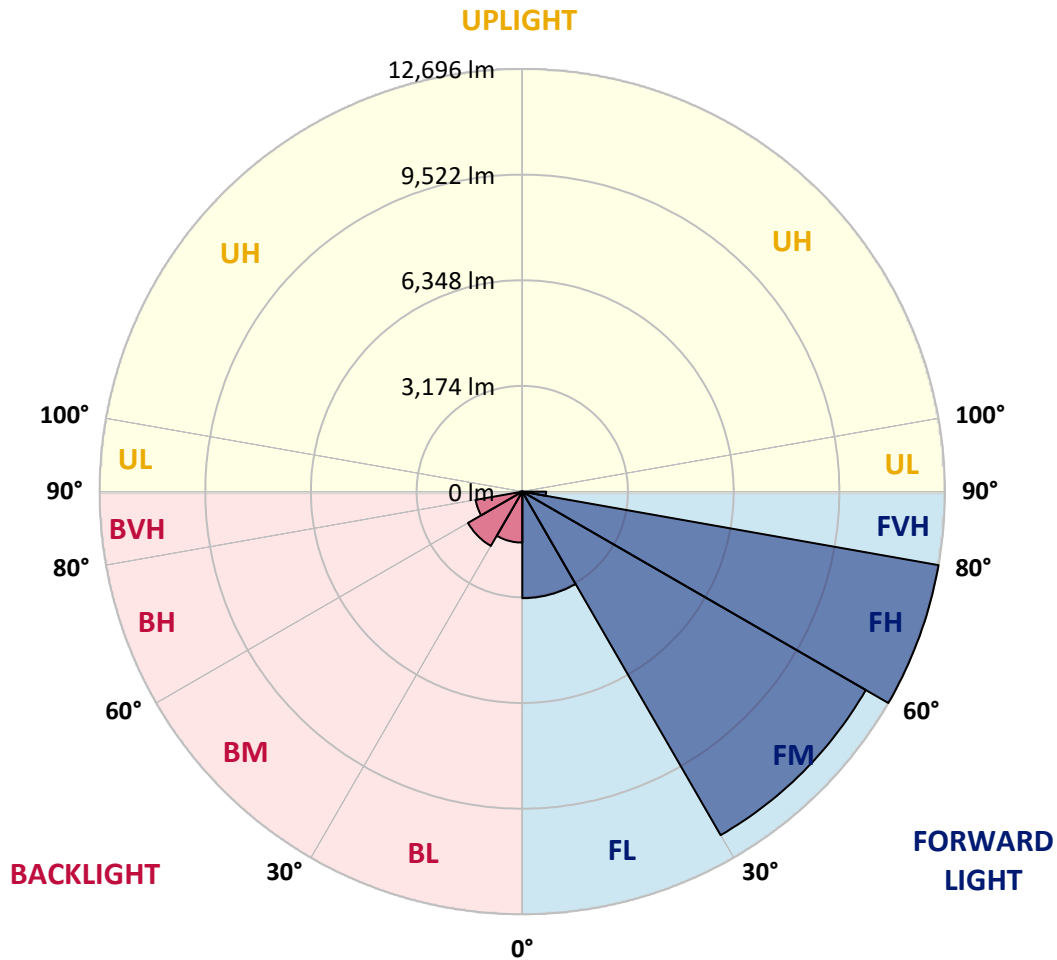
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3201.2	9.6			
FM (30°-60°)	11913.9	35.6			
FH (60°-80°)	12696.5	38.0			G5
FVH (80°-90°)	714.1	2.1			G4/750
BL (0°-30°)	1531.0	4.6	B3/2500		
BM (30°-60°)	1883.7	5.6	B2/2500		
BH (60°-80°)	1424.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	59.3	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4
2.5°	9579.4	9605.5	9598.1	9588.7	9573.8	9532.8	9465.7	9454.5	9411.7	9320.3	9206.6
5°	9432.2	9454.5	9456.4	9469.4	9488.1	9480.6	9432.2	9426.6	9363.2	9240.2	9050.0
7.5°	8927.0	8956.8	9022.1	9094.8	9160.0	9221.5	9236.4	9245.8	9206.6	9064.9	8811.4
10°	8358.5	8388.3	8418.1	8526.2	8686.5	8839.4	8966.1	8982.9	8992.2	8861.8	8552.3
12.5°	7728.4	7789.9	7853.3	8013.6	8228.0	8468.4	8692.1	8727.5	8790.9	8692.1	8328.6
15°	7193.4	7256.8	7348.1	7491.7	7750.8	8097.5	8412.5	8470.3	8595.2	8544.9	8119.9
17.5°	6822.5	6844.8	6908.2	7072.3	7351.9	7717.2	8138.5	8254.1	8453.5	8440.5	7940.9
20°	6529.8	6557.8	6596.9	6697.6	6988.4	7374.2	7883.1	8032.3	8302.5	8347.3	7763.8
22.5°	6406.8	6427.3	6421.7	6475.8	6673.3	7061.1	7624.0	7801.1	8168.3	8283.9	7599.8
25°	6414.2	6432.9	6404.9	6391.9	6509.3	6785.2	7353.7	7579.3	8060.2	8241.0	7450.7
27.5°	6539.1	6552.2	6500.0	6447.8	6457.1	6613.7	7130.0	7379.8	7968.9	8259.7	7325.8
30°	6706.9	6731.1	6697.6	6634.2	6565.2	6572.7	6986.5	7232.6	7926.0	8324.9	7266.1
32.5°	6923.1	6945.5	6930.6	6880.3	6790.8	6692.0	6951.1	7178.5	7929.7	8457.3	7253.1
35°	7150.5	7195.3	7219.5	7215.8	7143.1	6971.6	7090.9	7279.2	8019.2	8679.1	7329.5
37.5°	7407.8	7445.1	7549.5	7616.6	7549.5	7350.0	7405.9	7536.4	8216.8	8999.7	7497.3
40°	7657.6	7713.5	7866.3	8075.1	8049.0	7873.8	7886.9	7972.6	8565.4	9476.9	7825.3
42.5°	7918.5	7985.6	8252.2	8561.6	8623.2	8487.1	8522.5	8598.9	9061.2	10138.6	8388.3
45°	8254.1	8334.2	8662.3	9048.2	9290.5	9206.6	9307.3	9344.6	9724.8	10999.8	9130.2
47.5°	8686.5	8779.7	9184.2	9665.2	10008.2	10084.6	10259.8	10237.4	10546.9	12019.5	10092.0
50°	9415.4	9467.6	9849.7	10340.0	10811.6	11156.4	11346.6	11382.0	11566.5	13011.2	11167.6
52.5°	10282.2	10328.8	10604.7	11033.4	11624.3	12355.0	12824.8	12709.2	12753.9	14219.1	12425.9
55°	11257.1	11335.4	11510.6	11795.8	12561.9	13637.5	14580.7	14608.7	14112.8	15374.8	13631.9
57.5°	12012.0	12144.4	12444.5	12850.9	13822.0	15063.5	16331.1	16349.7	15715.9	16608.8	14962.8
60°	11631.8	11788.3	12474.3	13464.1	15475.5	17552.0	18422.5	18316.3	17276.1	18014.3	16586.4
62.5°	9991.4	10019.3	11016.6	12563.8	15984.3	20881.2	21535.5	21086.3	19358.3	19796.4	18236.1
65°	6466.4	6649.1	7439.5	9607.4	14312.3	22728.5	26989.8	25951.5	22277.4	21818.9	19617.4
67.5°	4082.3	4035.7	4363.8	5485.9	9844.1	21101.2	31644.3	31480.3	26095.0	23095.8	19287.5
69°	3385.1	3437.3	3549.2	4205.3	6774.0	18016.2	32194.2	33327.6	27946.0	22995.1	18088.9
70°	3070.1	3094.3	3211.8	3728.1	5226.8	15089.6	31292.0	33277.3	28673.0	22573.8	17220.2
72.5°	2436.3	2434.5	2635.8	3101.8	3907.1	8613.8	25694.3	28891.1	27860.3	20612.8	14228.4
75°	1851.0	1880.8	2102.7	2624.6	3599.5	4706.8	17930.4	22249.5	22251.3	16280.7	8878.5
77.5°	1334.7	1353.3	1612.4	2203.3	3390.7	3815.7	11943.1	15958.3	15002.0	7460.0	2790.5
80°	874.2	885.4	1083.0	1744.8	3057.1	3599.5	7081.6	9767.7	7076.0	1979.6	922.7
82.5°	479.1	535.0	661.7	1129.6	2453.1	3325.5	4304.1	4943.5	2654.4	881.7	480.9
85°	240.5	255.4	372.8	659.9	1603.1	2751.4	2997.4	2835.2	1370.1	438.1	249.8
87.5°	70.8	89.5	154.7	255.4	650.6	1433.5	1668.3	1496.8	527.5	158.4	52.2
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°	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4	9236.4
2.5°	9160.0	9126.5	8977.3	8843.1	8720.1	8589.6	8479.6	8382.7	8392.0	8393.9	8295.1
5°	8951.2	8874.8	8591.5	8326.8	8103.1	7819.7	7577.4	7420.8	7342.5	7238.2	7275.4
7.5°	8667.9	8520.6	8127.3	7687.4	7275.4	6908.2	6509.3	6235.3	6060.1	5890.4	5912.8
10°	8375.2	8138.5	7566.2	6984.6	6451.5	5864.3	5355.5	4919.3	4594.9	4473.8	4393.6
12.5°	8075.1	7763.8	7036.8	6263.3	5526.9	4824.2	4102.8	3634.9	3277.0	3086.9	3111.1
15°	7801.1	7422.7	6485.1	5541.9	4585.6	3748.6	3029.1	2583.6	2333.8	2281.6	2311.4
17.5°	7547.6	7051.8	5968.7	4841.0	3724.4	2811.0	2276.0	2024.4	1923.7	1895.8	1893.9
20°	7286.6	6736.7	5389.0	4091.6	2902.3	2179.1	1867.8	1750.4	1731.7	1742.9	1744.8
22.5°	7021.9	6347.1	4792.5	3347.9	2311.4	1782.0	1632.9	1601.2	1616.1	1642.2	1646.0
25°	6777.7	6004.1	4218.4	2695.4	1845.4	1565.8	1493.1	1493.1	1526.7	1565.8	1567.7
27.5°	6576.4	5672.3	3646.1	2139.9	1545.3	1409.2	1385.0	1398.0	1444.6	1474.5	1476.3
30°	6410.5	5362.9	3105.5	1714.9	1358.9	1284.3	1278.7	1301.1	1334.7	1362.6	1364.5
32.5°	6285.6	5090.8	2600.4	1440.9	1230.3	1189.3	1187.4	1204.2	1222.8	1230.3	1237.7
35°	6237.2	4865.2	2138.1	1267.6	1144.5	1118.4	1118.4	1116.6	1124.0	1127.8	1131.5
37.5°	6276.3	4691.8	1780.2	1155.7	1081.2	1062.5	1051.3	1040.1	1036.4	1036.4	1038.3
40°	6442.2	4600.5	1513.6	1083.0	1036.4	1008.5	988.0	974.9	961.9	965.6	969.3
42.5°	6794.5	4617.3	1332.8	1034.6	997.3	958.1	928.3	913.4	904.1	915.3	913.4
45°	7355.6	4785.1	1217.2	1001.0	958.1	907.8	879.8	864.9	864.9	881.7	887.3
47.5°	8140.4	5105.7	1155.7	974.9	928.3	868.7	840.7	829.5	833.2	861.2	863.1
50°	9098.5	5663.0	1144.5	961.9	913.4	840.7	809.0	797.8	807.1	837.0	840.7
52.5°	10155.4	6380.7	1198.6	963.7	900.3	823.9	782.9	766.1	775.5	799.7	807.1
55°	11408.1	7279.2	1338.4	971.2	881.7	814.6	764.3	727.0	738.2	754.9	756.8
57.5°	12686.8	8412.5	1584.5	973.0	866.8	797.8	732.6	684.1	684.1	695.3	700.9
60°	14248.9	9646.5	1908.8	974.9	868.7	773.6	689.7	635.6	628.2	633.8	635.6
62.5°	15799.8	10679.2	1962.9	969.3	887.3	749.4	643.1	587.2	574.1	572.3	568.5
65°	16483.9	10487.2	1608.7	943.2	907.8	734.4	605.8	540.6	518.2	510.8	510.8
67.5°	15369.2	8871.1	1209.8	907.8	894.8	719.5	570.4	501.4	475.3	460.4	460.4
69°	14321.6	7890.6	1086.7	883.6	861.2	695.3	548.0	480.9	449.2	432.5	426.9
70°	13512.6	7215.8	1034.6	863.1	829.5	667.3	531.3	466.0	430.6	412.0	408.2
72.5°	10783.6	5661.2	905.9	784.8	706.5	561.1	471.6	419.4	385.9	365.4	359.8
75°	6214.8	3068.2	751.2	682.2	568.5	436.2	398.9	365.4	339.3	320.6	315.0
77.5°	1912.5	1185.5	544.3	538.7	417.6	337.4	318.8	305.7	287.1	266.6	262.8
80°	805.3	604.0	369.1	363.5	277.7	234.9	229.3	227.4	220.0	203.2	197.6
82.5°	441.8	341.1	257.2	223.7	167.8	136.1	141.7	143.5	137.9	121.2	110.0
85°	216.2	186.4	124.9	100.7	76.4	48.5	46.6	55.9	52.2	37.3	41.0
87.5°	42.9	52.2	33.6	14.9	7.5	0.0	0.0	0.0	0.0	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)