

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: P522926

Luminaire Tested: **GALN-SA9C-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46887 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

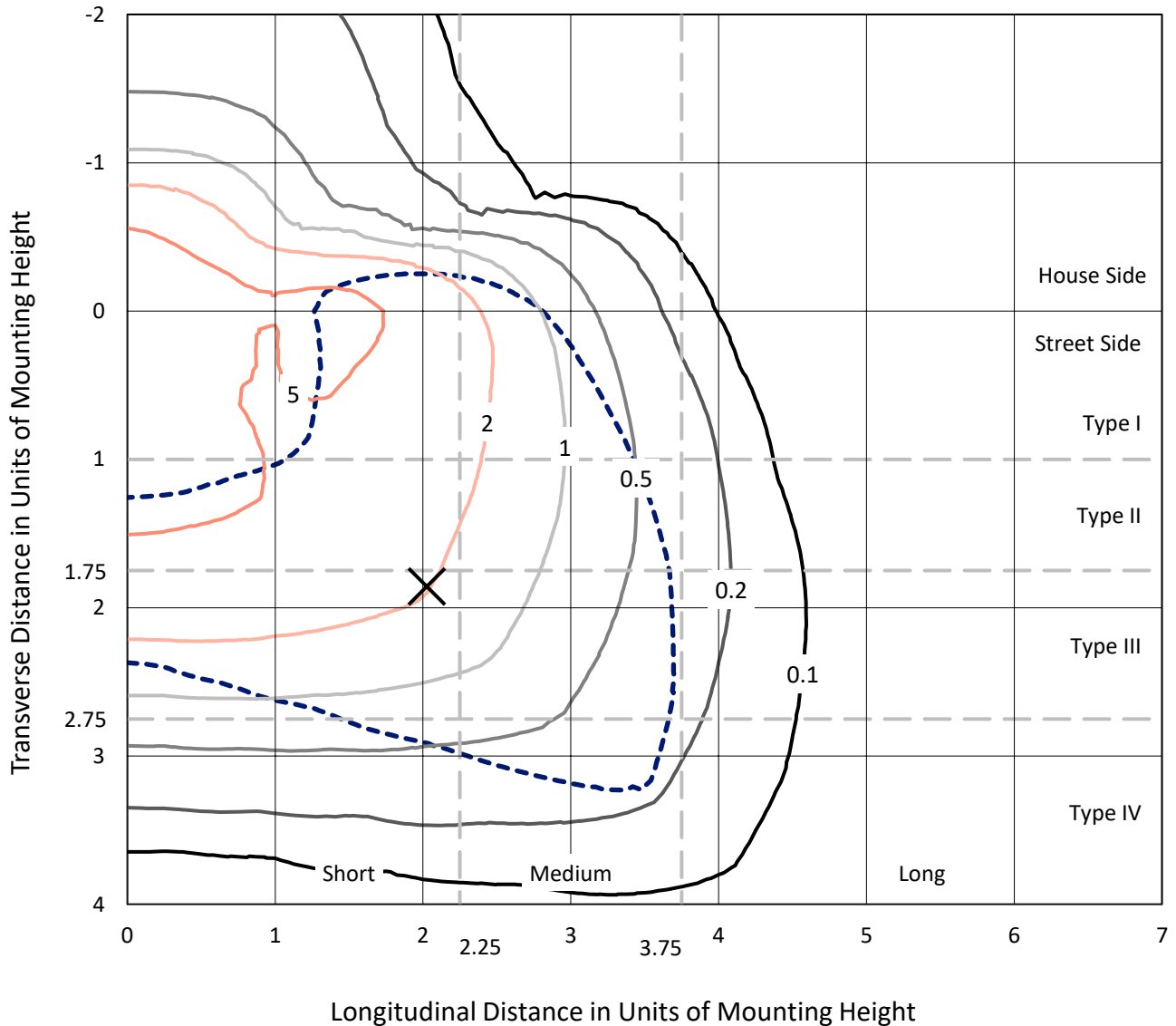
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

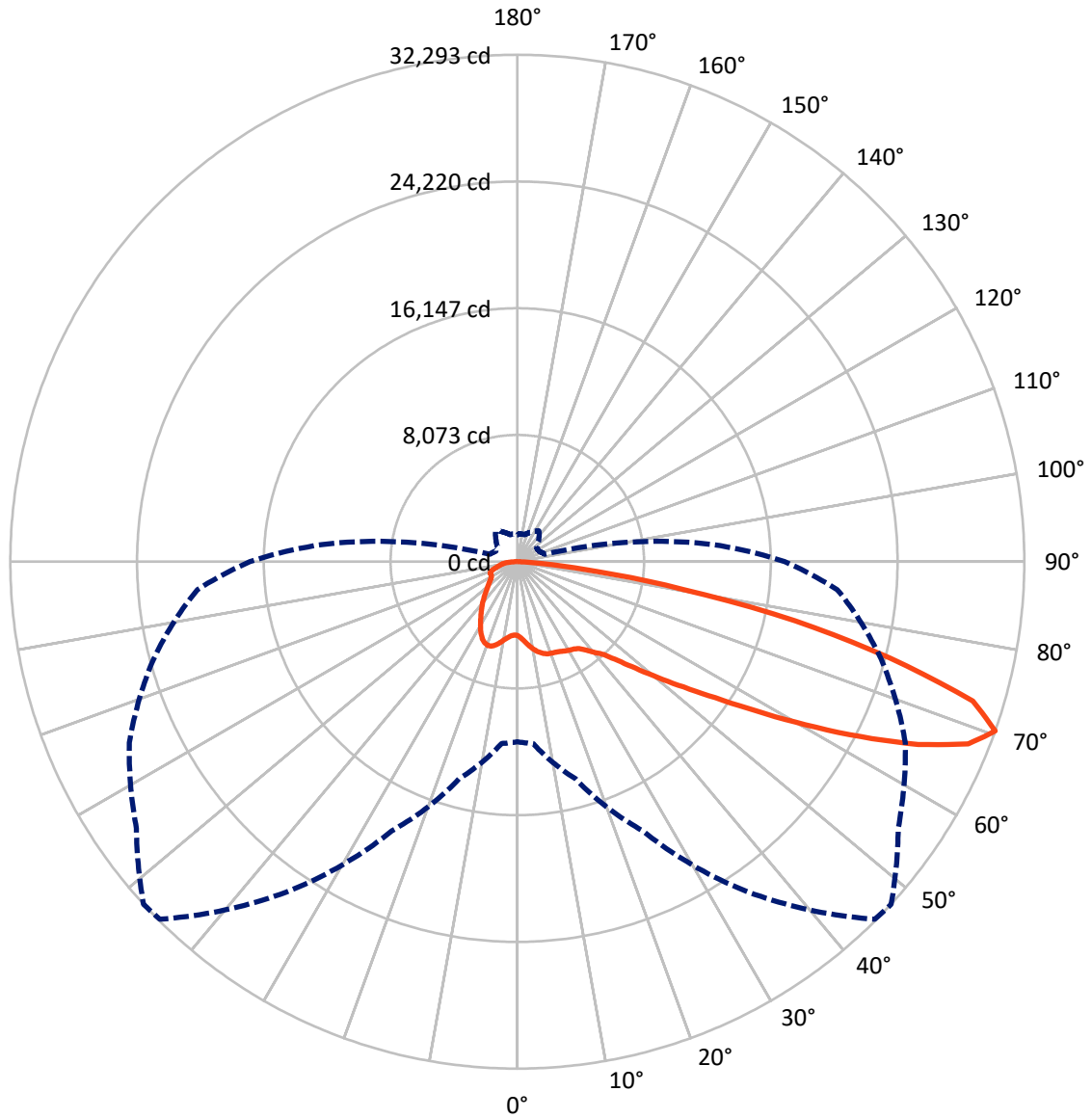
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10616.1	0.0	10616.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	36270.9	0.0	36270.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	46887.0	0.0	46887.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.2	1.0
10°-20°	1622.0	3.5
20°-30°	2697.4	5.8
30°-40°	3823.1	8.2
40°-50°	5643.7	12.0
50°-60°	9775.2	20.8
60°-70°	13807.8	29.4
70°-80°	7937.5	16.9
80°-90°	1095.2	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°	46887.0	100.0
0°-180°	46887.0	100.0

**Coefficient of Utilization**



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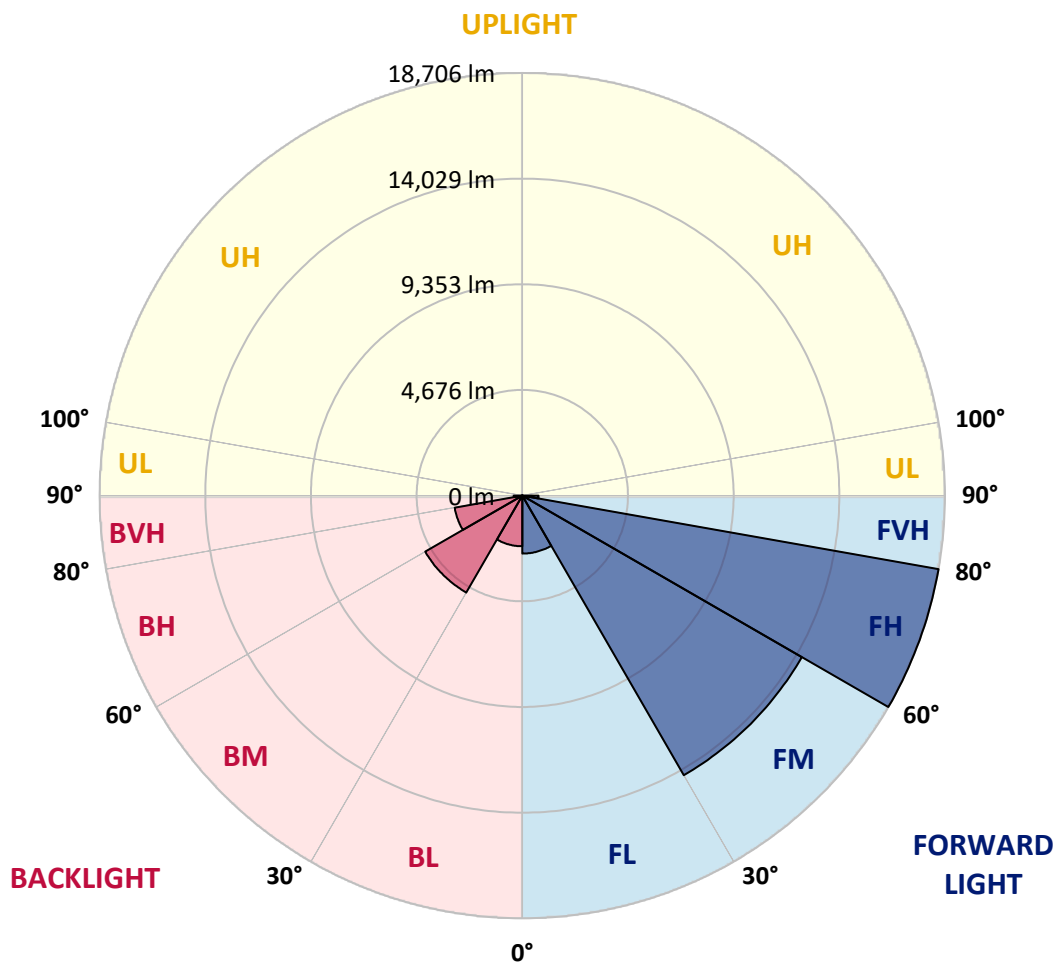
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2564.0	5.5			
FM	(30°-60°)	14285.6	30.5			
FH	(60°-80°)	18706.0	39.9			G5
FVH	(80°-90°)	715.4	1.5			G4/750
BL	(0°-30°)	2240.6	4.8	B3/2500		
BM	(30°-60°)	4956.5	10.6	B3/5000		
BH	(60°-80°)	3039.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	379.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9
2.5°	5010.5	4992.9	4990.4	4952.8	4932.7	4895.1	4880.0	4844.9	4802.2	4759.6	4719.4
5°	5404.4	5404.4	5386.8	5334.1	5251.3	5166.0	5128.4	5060.7	4940.2	4842.4	4759.6
7.5°	5808.3	5813.4	5778.2	5700.5	5582.5	5444.5	5409.4	5309.1	5138.4	4995.4	4872.5
10°	6157.1	6157.1	6109.4	6004.0	5856.0	5705.5	5670.3	5557.4	5366.8	5188.6	5028.0
12.5°	6423.0	6423.0	6360.3	6222.3	6061.8	5926.3	5886.1	5778.2	5600.1	5401.9	5198.7
15°	6596.2	6583.6	6513.4	6357.8	6202.3	6084.3	6056.7	5966.4	5803.3	5602.6	5374.3
17.5°	6603.7	6598.7	6530.9	6400.5	6265.0	6184.7	6167.1	6106.9	5979.0	5788.3	5547.4
20°	6458.2	6468.2	6423.0	6330.2	6265.0	6229.9	6222.3	6202.3	6111.9	5933.8	5692.9
22.5°	6302.6	6320.2	6277.5	6227.3	6222.3	6257.5	6262.5	6267.5	6209.8	6036.7	5815.9
25°	6265.0	6277.5	6234.9	6189.7	6217.3	6310.1	6330.2	6350.3	6305.1	6159.6	5961.4
27.5°	6455.7	6445.6	6362.8	6265.0	6282.5	6408.0	6435.6	6458.2	6435.6	6310.1	6142.0
30°	6995.1	6962.5	6796.9	6510.9	6420.5	6508.4	6536.0	6598.7	6598.7	6505.8	6337.7
32.5°	7898.3	7835.6	7532.0	6970.0	6656.4	6603.7	6631.3	6734.2	6786.9	6714.1	6530.9
35°	8994.8	8929.5	8495.5	7740.3	7087.9	6794.4	6786.9	6902.3	7042.8	6879.7	6641.3
37.5°	10096.2	10028.5	9506.6	8658.6	7717.7	7195.8	7150.7	7190.8	7251.0	6952.4	6794.4
40°	11197.7	11117.4	10660.8	9684.8	8488.0	7727.7	7609.8	7429.2	7404.1	7190.8	7090.4
42.5°	12289.1	12216.3	11985.5	10836.4	9411.3	8247.1	8066.4	7755.3	7850.7	7722.7	7634.9
45°	13390.6	13395.6	13149.7	12128.5	10525.3	9205.5	8962.2	8475.4	8701.2	8653.6	8703.7
47.5°	14366.6	14354.0	14266.2	13383.0	11907.7	10440.0	10126.3	9561.8	9948.2	10123.8	10507.7
50°	15312.4	15304.9	15309.9	14805.6	13513.5	11907.7	11561.5	10969.4	11840.0	12449.7	13137.1
52.5°	16667.3	16710.0	16406.4	16273.4	15465.5	13641.5	13260.1	12647.9	14075.5	15036.5	16378.8
55°	18027.2	17992.1	17753.7	17891.7	17507.8	15693.8	15294.9	14808.1	16564.4	17615.7	19633.0
57.5°	18827.6	18840.1	19083.5	19758.4	20029.4	18253.0	17891.7	17515.4	19362.0	20107.2	22528.3
60°	19547.6	19605.4	20305.4	21579.9	22315.1	21396.8	21075.6	20709.3	21928.7	22224.8	25042.4
62.5°	19773.5	19951.6	21173.5	23080.3	24543.1	24944.5	24545.6	23737.7	24372.5	24257.0	26746.0
65°	18646.9	18890.3	21080.6	23642.3	26532.7	28311.6	28058.2	26557.8	26454.9	25759.9	27024.5
67.5°	15681.3	15924.6	18737.2	22463.1	27355.7	31227.1	30973.6	28615.2	27719.5	25900.4	24916.9
70°	11473.7	11626.7	14316.4	18912.9	25702.2	32205.6	32293.4	29618.8	27267.9	23991.1	20458.4
72.5°	6611.2	6949.9	8834.2	13305.2	20997.9	29731.7	30341.4	27531.3	24412.6	20014.3	14303.8
75°	2842.7	2850.2	4084.7	7338.8	14221.0	23898.3	24487.9	22821.9	19171.3	13839.7	7637.4
77.5°	1352.4	1377.4	1796.4	3276.8	7828.1	16511.8	18102.5	16122.9	12261.5	6648.9	2885.4
80°	878.2	895.7	1098.9	1625.8	3838.8	9574.4	10683.3	9300.9	5409.4	2376.0	1244.5
82.5°	531.9	536.9	735.1	993.6	2112.6	4335.6	5110.8	4037.0	2308.3	1422.6	732.6
85°	323.7	326.2	446.6	614.7	1282.1	1497.9	1538.0	1525.5	1354.9	930.8	391.4
87.5°	155.6	160.6	230.8	291.0	504.3	464.2	439.1	509.3	639.8	501.8	168.1
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°	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9
2.5°	4701.9	4694.3	4676.8	4669.3	4664.2	4666.7	4664.2	4664.2	4666.7	4666.7	4666.7
5°	4724.5	4711.9	4684.3	4684.3	4699.4	4734.5	4767.1	4792.2	4819.8	4817.3	4817.3
7.5°	4822.3	4799.7	4767.1	4777.1	4814.8	4870.0	4927.7	4982.9	5038.1	5043.1	5040.6
10°	4965.3	4942.7	4907.6	4920.2	4980.4	5063.2	5135.9	5216.2	5276.4	5294.0	5289.0
12.5°	5128.4	5083.2	5053.1	5088.3	5183.6	5294.0	5364.2	5424.5	5467.1	5492.2	5482.2
15°	5294.0	5251.3	5216.2	5289.0	5404.4	5507.3	5542.4	5552.4	5560.0	5585.0	5580.0
17.5°	5454.6	5396.9	5384.3	5479.7	5590.1	5635.2	5615.1	5572.5	5539.9	5560.0	5557.4
20°	5597.6	5552.4	5547.4	5642.7	5685.4	5642.7	5557.4	5482.2	5424.5	5429.5	5427.0
22.5°	5733.1	5697.9	5703.0	5743.1	5675.4	5529.8	5389.3	5286.5	5223.7	5236.3	5243.8
25°	5883.6	5848.5	5861.0	5795.8	5572.5	5319.1	5115.9	5028.0	5003.0	5028.0	5045.6
27.5°	6079.3	6056.7	6049.2	5798.3	5389.3	5008.0	4777.1	4744.5	4767.1	4822.3	4849.9
30°	6290.1	6290.1	6249.9	5755.7	5138.4	4634.1	4433.4	4438.4	4516.2	4594.0	4621.6
32.5°	6493.3	6536.0	6410.5	5640.2	4814.8	4270.3	4117.3	4122.3	4190.0	4285.4	4310.5
35°	6661.4	6784.3	6548.5	5429.5	4433.4	3964.2	3848.8	3781.1	3783.6	3856.3	3876.4
37.5°	6892.2	7120.6	6628.8	5115.9	4027.0	3703.3	3572.8	3454.9	3377.1	3347.0	3347.0
40°	7293.7	7629.9	6648.9	4651.7	3643.1	3454.9	3269.2	3128.7	2978.2	2842.7	2817.6
42.5°	7973.6	8397.6	6608.7	4117.3	3296.8	3181.4	3000.8	2827.6	2619.4	2428.7	2413.7
45°	9177.9	9396.2	6500.8	3562.8	2988.2	2918.0	2742.3	2554.2	2333.4	2162.8	2150.2
47.5°	11107.4	10798.8	6357.8	3071.0	2707.2	2687.1	2551.7	2333.4	2112.6	1994.7	1982.1
50°	13925.0	13006.7	6337.7	2714.7	2481.4	2491.4	2381.0	2180.3	1987.1	1889.3	1874.2
52.5°	17317.1	15673.7	6470.7	2463.8	2283.2	2320.8	2265.6	2080.0	1909.4	1826.6	1811.5
55°	20609.0	18072.4	6551.0	2268.1	2097.5	2167.8	2175.3	2019.7	1864.2	1781.4	1771.4
57.5°	23281.0	19878.8	6194.7	2090.0	1937.0	2044.8	2100.0	1984.6	1841.6	1778.9	1768.8
60°	25140.2	20731.9	5181.1	1931.9	1819.0	1947.0	2072.4	1987.1	1896.8	1904.3	1909.4
62.5°	25732.3	20353.0	3886.4	1814.0	1738.7	1914.4	2117.6	2090.0	1997.2	2054.9	2064.9
65°	24751.3	18787.4	2817.6	1721.2	1668.5	1937.0	2253.1	2165.3	1962.0	2004.7	2004.7
67.5°	21467.0	16185.6	2192.9	1635.9	1588.2	1979.6	2388.6	2157.7	1879.2	1929.4	1884.3
70°	17028.6	12519.9	1826.6	1540.5	1502.9	1916.9	2401.1	2080.0	1781.4	1791.4	1706.1
72.5°	11300.6	8232.0	1570.6	1450.2	1372.4	1723.7	2298.2	1979.6	1686.1	1628.3	1543.0
75°	5537.4	4104.7	1369.9	1337.3	1201.8	1500.4	2157.7	1884.3	1583.2	1492.9	1445.2
77.5°	2145.2	1746.3	1169.2	1194.3	1046.3	1322.2	1972.1	1748.8	1447.7	1324.8	1287.1
80°	1041.2	991.1	958.4	996.1	860.6	1126.5	1801.5	1630.9	1322.2	1186.8	1131.6
82.5°	647.3	612.2	735.1	775.3	662.4	1028.7	1708.6	1530.5	1164.2	983.5	938.4
85°	328.7	351.3	491.8	529.4	474.2	817.9	1407.6	1149.1	840.5	697.5	702.5
87.5°	125.5	168.1	258.4	278.5	253.4	431.5	775.3	669.9	539.4	366.3	338.7
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)