

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: P453706

Luminaire Tested: **GALN-SA4D-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453706  
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-SA4D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 27820 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

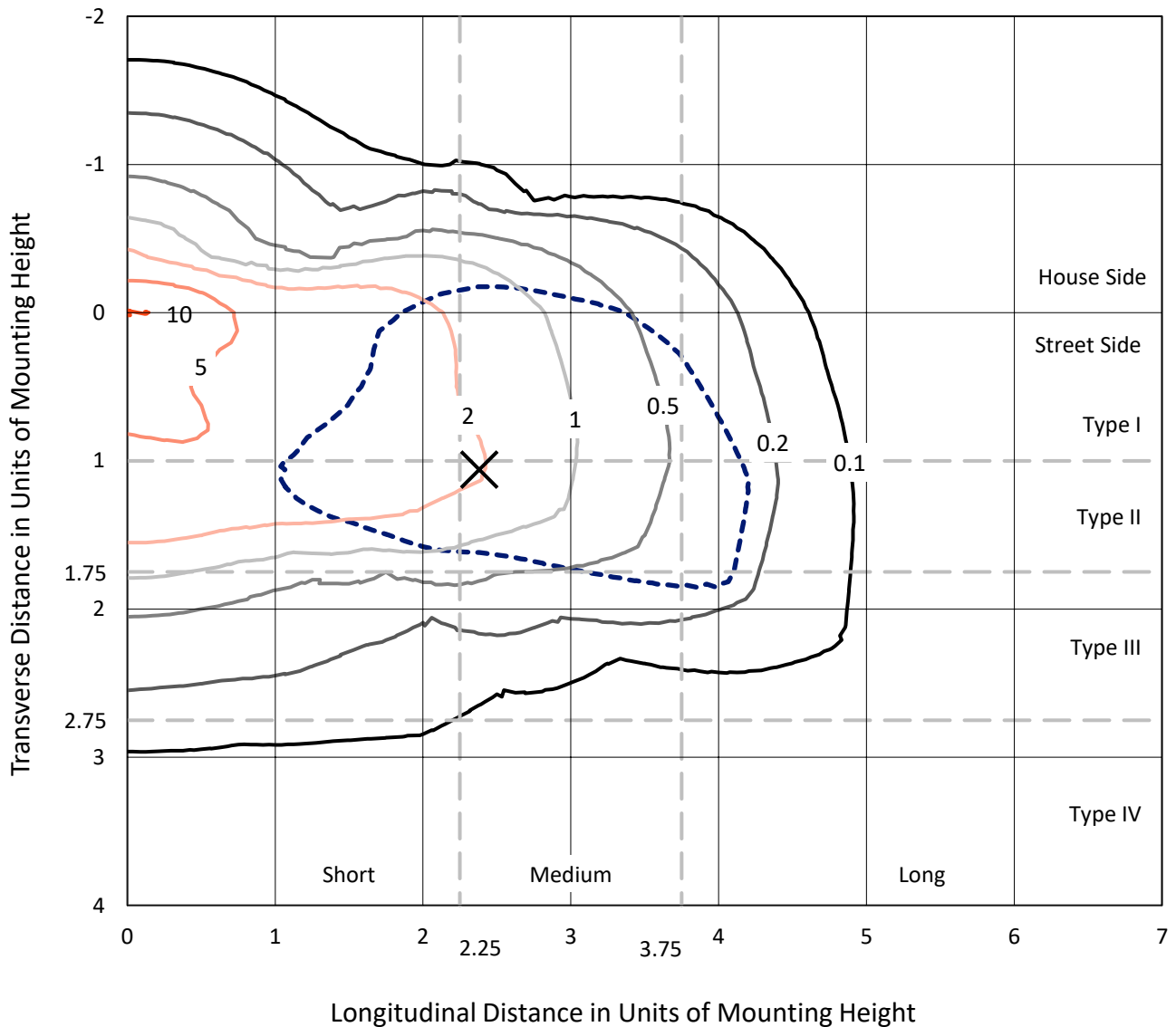
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

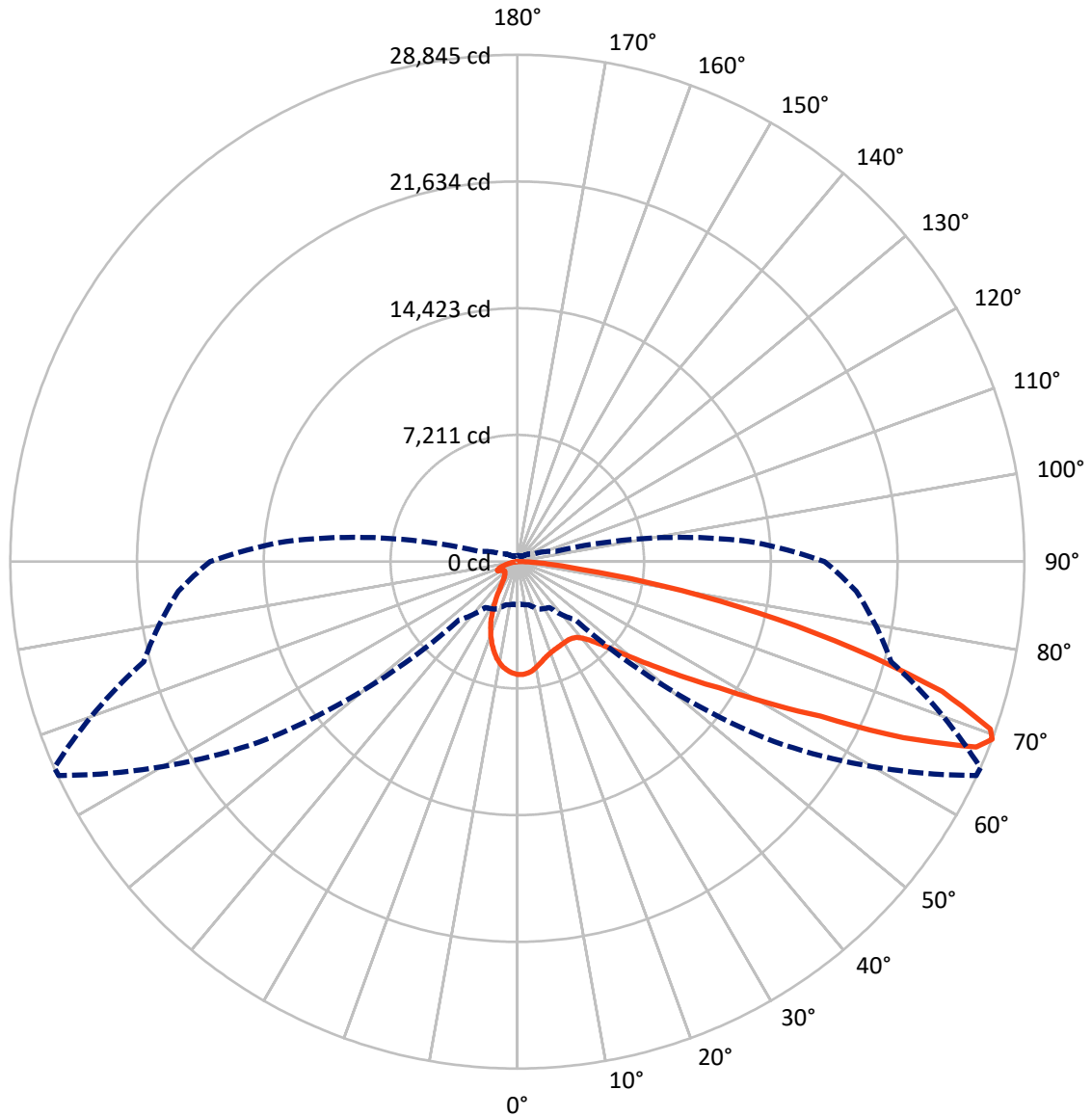
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	5231.9	0.0	5231.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	22588.1	0.0	22588.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	27820.0	0.0	27820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.9	2.0
10°-20°	1323.3	4.8
20°-30°	1801.5	6.5
30°-40°	2420.8	8.7
40°-50°	3614.6	13.0
50°-60°	5749.6	20.7
60°-70°	7071.7	25.4
70°-80°	4601.2	16.5
80°-90°	679.5	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°	27820.0	100.0
0°-180°	27820.0	100.0

**Coefficient of Utilization**



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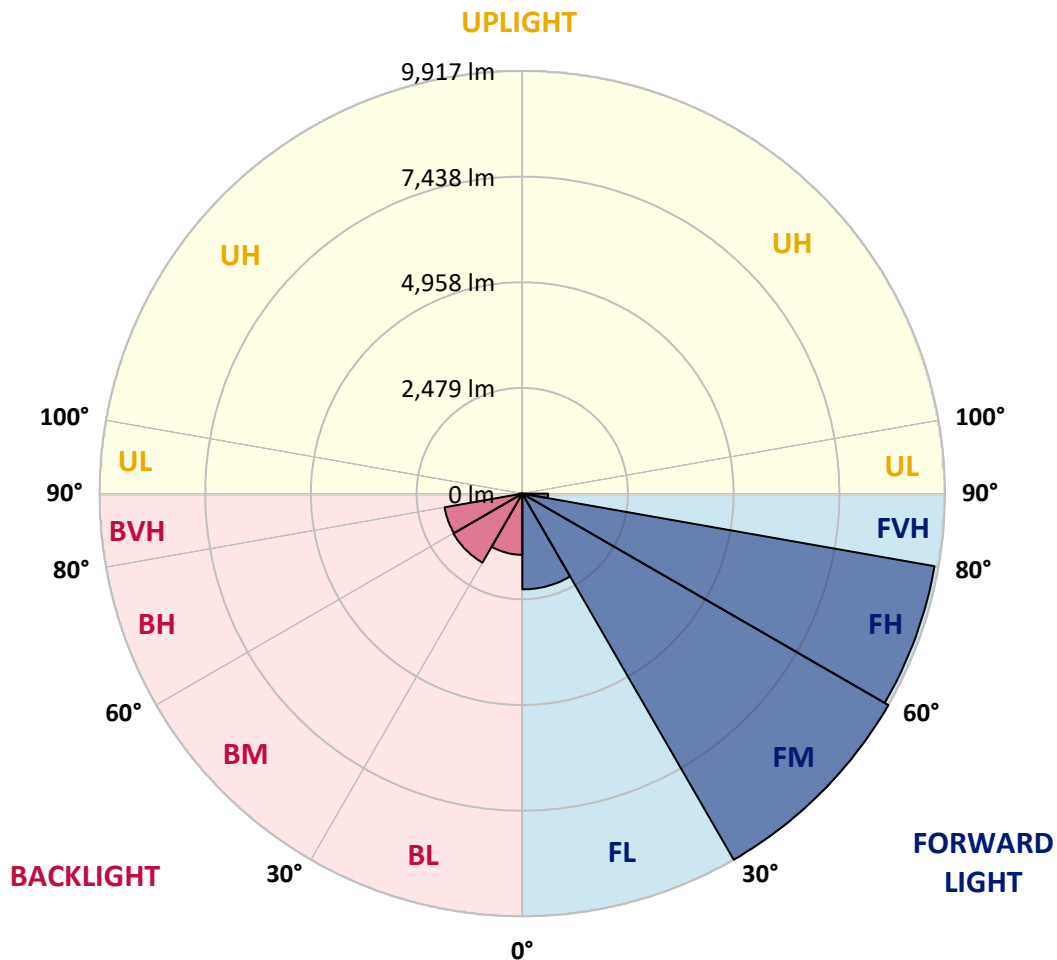
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2246.4	8.1			
FM	(30°-60°)	9917.0	35.6			
FH	(60°-80°)	9820.6	35.3			G4/12000
FVH	(80°-90°)	604.1	2.2			G4/750
BL	(0°-30°)	1436.2	5.2	B3/2500		
BM	(30°-60°)	1868.0	6.7	B2/2500		
BH	(60°-80°)	1852.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	75.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4
2.5°	6199.5	6224.1	6251.9	6282.7	6341.2	6373.6	6396.7	6422.9	6426.0	6439.8	6429.0
5°	5741.9	5771.2	5812.8	5871.3	5959.1	6096.3	6238.0	6353.5	6367.4	6432.1	6450.6
7.5°	5359.8	5376.8	5410.7	5504.7	5629.4	5782.0	5988.4	6222.6	6256.5	6410.5	6464.5
10°	5048.6	5065.6	5105.6	5202.7	5325.9	5517.0	5743.5	6051.6	6079.3	6344.3	6467.5
12.5°	4816.0	4831.4	4874.5	4970.1	5111.8	5290.5	5540.1	5866.7	5906.8	6256.5	6438.3
15°	4638.8	4668.1	4703.5	4782.1	4931.5	5104.1	5346.0	5697.2	5729.6	6164.0	6418.2
17.5°	4563.3	4577.2	4601.9	4674.3	4783.6	4953.1	5196.5	5564.7	5603.3	6099.3	6413.6
20°	4566.4	4580.3	4584.9	4625.0	4703.5	4849.9	5090.2	5460.0	5506.2	6042.3	6421.3
22.5°	4671.2	4672.7	4655.8	4641.9	4672.7	4794.4	5014.7	5381.4	5435.3	6017.7	6427.5
25°	4832.9	4860.7	4836.0	4771.3	4714.3	4772.9	4985.5	5338.3	5389.1	5982.3	6419.8
27.5°	5094.9	5099.5	5079.4	4991.6	4843.7	4800.6	4973.1	5305.9	5349.1	5956.1	6381.3
30°	5446.1	5432.2	5413.8	5316.7	5084.1	4906.9	4999.3	5276.6	5321.3	5917.5	6335.1
32.5°	5802.0	5845.1	5828.2	5714.2	5412.2	5113.3	5084.1	5273.6	5310.5	5888.3	6284.2
35°	6179.5	6199.5	6279.6	6221.0	5911.4	5447.7	5242.8	5321.3	5350.6	5889.8	6248.8
37.5°	6475.3	6529.2	6717.1	6768.0	6476.8	5889.8	5500.0	5456.9	5469.2	5965.3	6262.6
40°	6832.7	6925.1	7167.0	7375.0	7183.9	6464.5	5937.6	5708.0	5723.4	6147.1	6353.5
42.5°	7285.6	7350.3	7675.4	7957.3	7926.5	7224.0	6467.5	6119.4	6127.1	6509.1	6607.7
45°	7815.6	7908.0	8273.2	8696.8	8769.2	8083.7	7233.2	6741.8	6737.2	7071.5	7082.3
47.5°	8493.5	8550.5	8912.5	9374.7	9667.4	9163.6	8162.2	7635.3	7586.0	7891.1	7803.3
50°	9117.4	9206.8	9481.0	9986.3	10715.1	10428.5	9384.0	8793.9	8678.3	8963.4	8815.5
52.5°	9379.3	9473.3	9704.4	10331.4	11613.2	12064.6	10935.4	10175.8	9983.3	10202.0	10148.1
55°	8924.8	9046.6	9262.2	10024.9	12007.6	13951.9	13027.5	11773.5	11633.3	11539.3	11554.7
57.5°	7703.1	7818.7	8109.9	8951.0	11536.2	15321.5	16014.8	13827.1	13526.7	13093.8	13167.7
60°	5863.6	5936.0	6087.0	7019.1	10138.9	15677.4	19407.3	16423.1	16232.0	14642.1	14694.5
62.5°	4164.3	4246.0	4350.7	4816.0	7422.7	14674.5	22063.3	20048.2	19365.7	16245.9	16195.1
65°	3381.7	3326.2	3452.5	3669.8	4355.4	11372.9	22661.1	25079.9	24140.1	18358.1	17652.5
67.5°	2780.8	2722.3	2847.1	3233.8	3312.3	6601.6	20507.3	28346.0	28158.0	20655.2	19133.0
69°	2461.9	2431.1	2540.5	2981.1	3179.9	4688.1	17865.1	28800.5	28845.1	22009.4	19361.0
70°	2218.5	2230.8	2337.1	2853.2	3119.8	3865.4	15269.1	28173.4	28552.4	22685.7	19114.5
72.5°	1633.1	1659.3	1807.2	2363.3	3062.8	3280.0	9086.6	24608.4	25278.6	22725.8	17486.1
75°	1141.6	1129.3	1260.2	1779.4	2893.3	3250.7	5336.7	19031.4	19790.9	19643.0	14693.0
77.5°	747.2	767.2	872.0	1257.2	2434.2	3226.1	3478.7	13502.0	13995.0	13136.9	8690.7
80°	526.9	525.4	583.9	858.1	1805.6	3099.7	2848.6	8510.4	8385.6	5162.6	2577.5
82.5°	302.0	323.5	391.3	603.9	1207.9	2728.4	2620.6	4070.3	3716.0	1471.3	870.5
85°	167.9	175.6	232.6	365.1	705.6	2055.2	2287.8	1851.8	1747.1	614.7	374.4
87.5°	53.9	58.5	97.1	184.9	320.5	970.6	1295.7	855.0	788.8	221.9	151.0
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°	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4	6424.4
2.5°	6433.7	6452.1	6402.8	6355.1	6311.9	6251.9	6197.9	6153.3	6122.4	6117.8	6102.4
5°	6455.2	6456.8	6362.8	6236.5	6113.2	5977.6	5837.4	5737.3	5643.3	5590.9	5564.7
7.5°	6470.6	6456.8	6287.3	6082.4	5845.1	5598.6	5352.1	5154.9	5002.4	4942.3	4965.4
10°	6464.5	6421.3	6173.3	5845.1	5500.0	5131.8	4777.5	4500.2	4246.0	4115.0	4118.1
12.5°	6430.6	6359.7	6003.8	5578.6	5071.7	4578.7	4036.4	3662.1	3367.8	3193.7	3139.8
15°	6401.3	6278.1	5805.1	5216.6	4586.4	3882.4	3221.4	2759.3	2512.8	2375.6	2374.1
17.5°	6370.5	6199.5	5587.9	4832.9	4028.7	3122.8	2429.6	2076.8	1961.2	1975.1	1952.0
20°	6338.1	6107.0	5361.4	4406.2	3349.3	2329.4	1819.5	1676.2	1708.6	1771.7	1781.0
22.5°	6301.2	6008.4	5118.0	3936.3	2634.5	1753.2	1475.9	1454.4	1537.5	1636.1	1650.0
25°	6244.2	5885.2	4811.4	3444.8	2032.1	1412.8	1292.6	1308.0	1389.6	1472.8	1482.1
27.5°	6164.0	5732.7	4501.7	2831.7	1526.8	1212.5	1181.7	1201.7	1241.7	1292.6	1304.9
30°	6056.2	5560.1	4145.8	2301.7	1223.3	1112.3	1100.0	1110.8	1133.9	1155.5	1161.6
32.5°	5948.4	5393.7	3786.9	1762.5	1090.8	1046.1	1033.8	1033.8	1033.8	1036.8	1038.4
35°	5848.2	5236.6	3401.7	1372.7	1021.4	993.7	976.8	958.3	955.2	944.4	944.4
37.5°	5792.8	5093.3	2991.9	1149.3	970.6	950.6	927.5	896.6	879.7	881.2	878.2
40°	5803.5	4999.3	2619.1	1023.0	929.0	907.4	872.0	836.6	825.8	825.8	822.7
42.5°	5925.2	4968.5	2261.6	956.7	888.9	864.3	819.6	787.3	781.1	779.6	782.6
45°	6205.6	5044.0	1941.2	913.6	855.0	818.1	773.4	744.1	738.0	738.0	736.4
47.5°	6752.6	5289.0	1711.6	885.9	830.4	782.6	736.4	707.1	696.4	693.3	693.3
50°	7603.0	5820.5	1540.6	861.2	799.6	750.3	702.5	668.6	651.7	650.1	648.6
52.5°	8784.7	6649.3	1474.4	842.7	765.7	716.4	664.0	631.7	610.1	605.5	602.4
55°	10166.6	7806.4	1565.3	828.9	730.3	677.9	624.0	590.1	570.0	560.8	559.2
57.5°	11767.3	9196.0	1910.4	810.4	697.9	636.3	583.9	550.0	528.4	517.7	514.6
60°	13204.7	10624.2	2512.8	799.6	670.2	591.6	537.7	506.9	486.8	476.1	474.5
62.5°	14783.8	11986.1	3232.2	828.9	657.8	548.5	494.5	466.8	449.9	439.1	439.1
65°	16470.8	13349.5	3708.3	927.5	676.3	514.6	448.3	425.2	409.8	402.1	400.6
67.5°	17607.8	13821.0	3055.1	1029.1	722.6	477.6	403.6	385.2	375.9	368.2	368.2
69°	17484.6	13224.7	2253.9	1055.3	736.4	459.1	379.0	365.1	352.8	349.7	346.6
70°	17094.8	12545.3	1888.8	1038.4	725.6	442.2	363.6	346.6	335.9	332.8	331.2
72.5°	15226.0	10879.9	1406.6	902.8	617.8	383.6	322.0	306.6	297.3	292.7	292.7
75°	12650.1	8892.5	1098.5	717.9	483.8	323.5	275.8	263.4	255.7	252.7	251.1
77.5°	7090.0	4965.4	788.8	562.3	366.7	261.9	231.1	220.3	212.6	209.5	209.5
80°	1975.1	1418.9	463.7	371.3	249.6	198.7	183.3	175.6	164.8	157.1	161.8
82.5°	744.1	614.7	265.0	223.4	158.7	132.5	127.9	121.7	117.1	106.3	106.3
85°	362.0	298.9	169.5	118.6	87.8	69.3	66.2	63.2	60.1	52.4	53.9
87.5°	124.8	132.5	74.0	43.1	26.2	16.9	13.9	7.7	7.7	7.7	7.7
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)