

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: P457650

Luminaire Tested: **GALN-SA9A-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457650
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-SA9A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 37688 lumens
Efficiency: N/A
Efficacy: 137.5 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

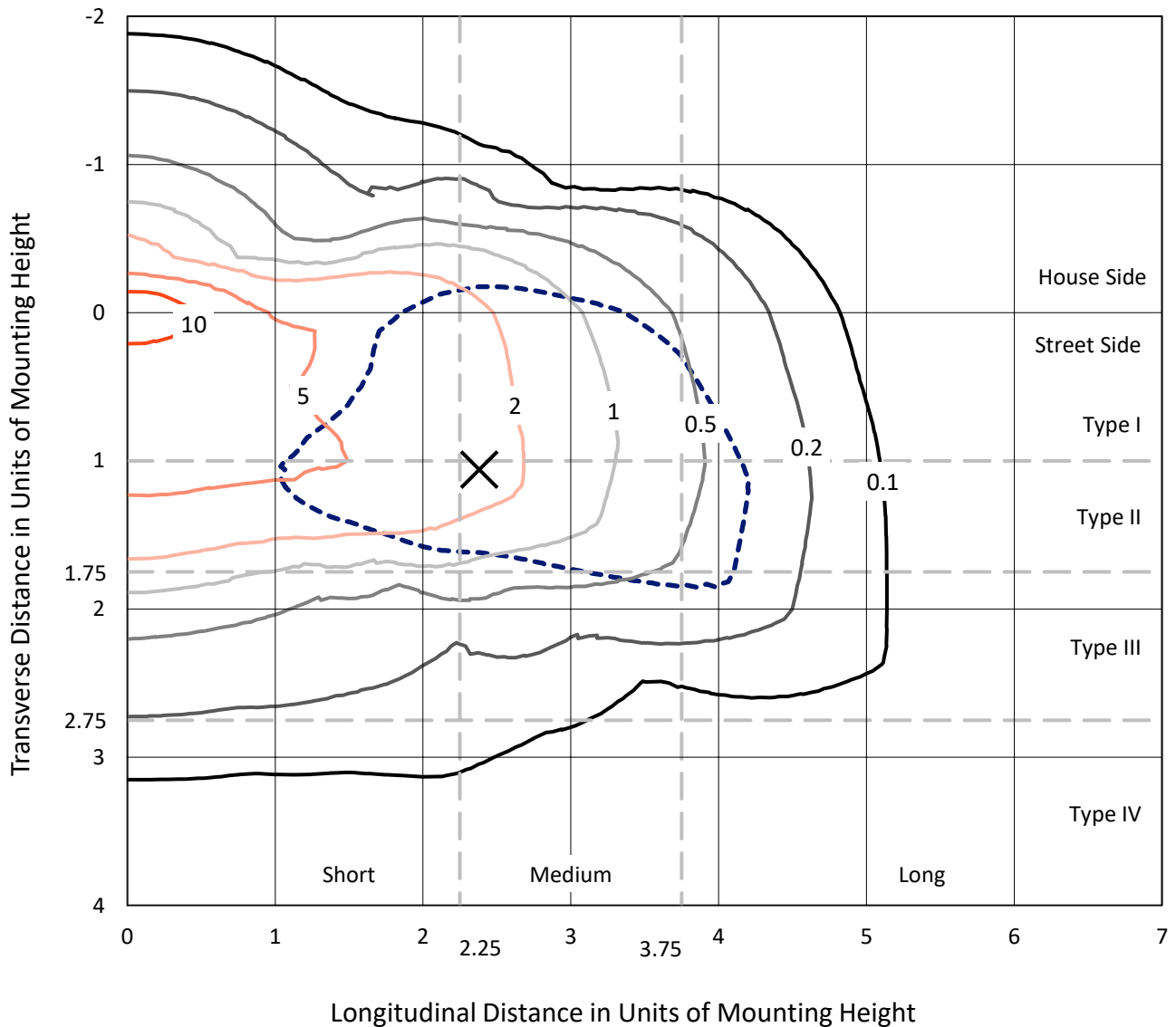
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

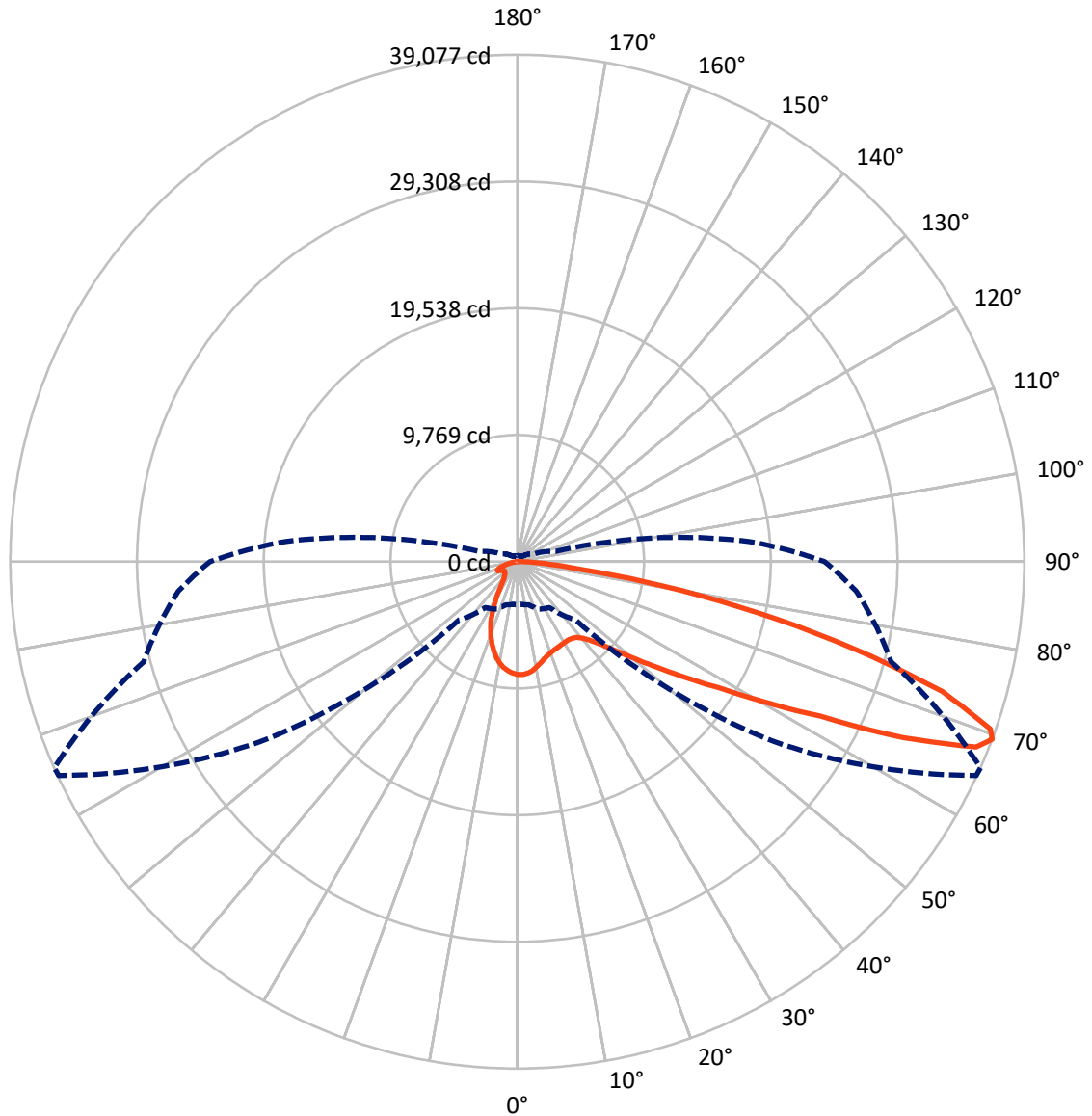
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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
House Side	Lumens	7087.7	0.0	7087.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30600.3	0.0	30600.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	37688.0	0.0	37688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.8	2.0
10°-20°	1792.6	4.8
20°-30°	2440.4	6.5
30°-40°	3279.4	8.7
40°-50°	4896.7	13.0
50°-60°	7789.1	20.7
60°-70°	9580.1	25.4
70°-80°	6233.3	16.5
80°-90°	920.5	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°	37688.0	100.0
0°-180°	37688.0	100.0

Coefficient of Utilization



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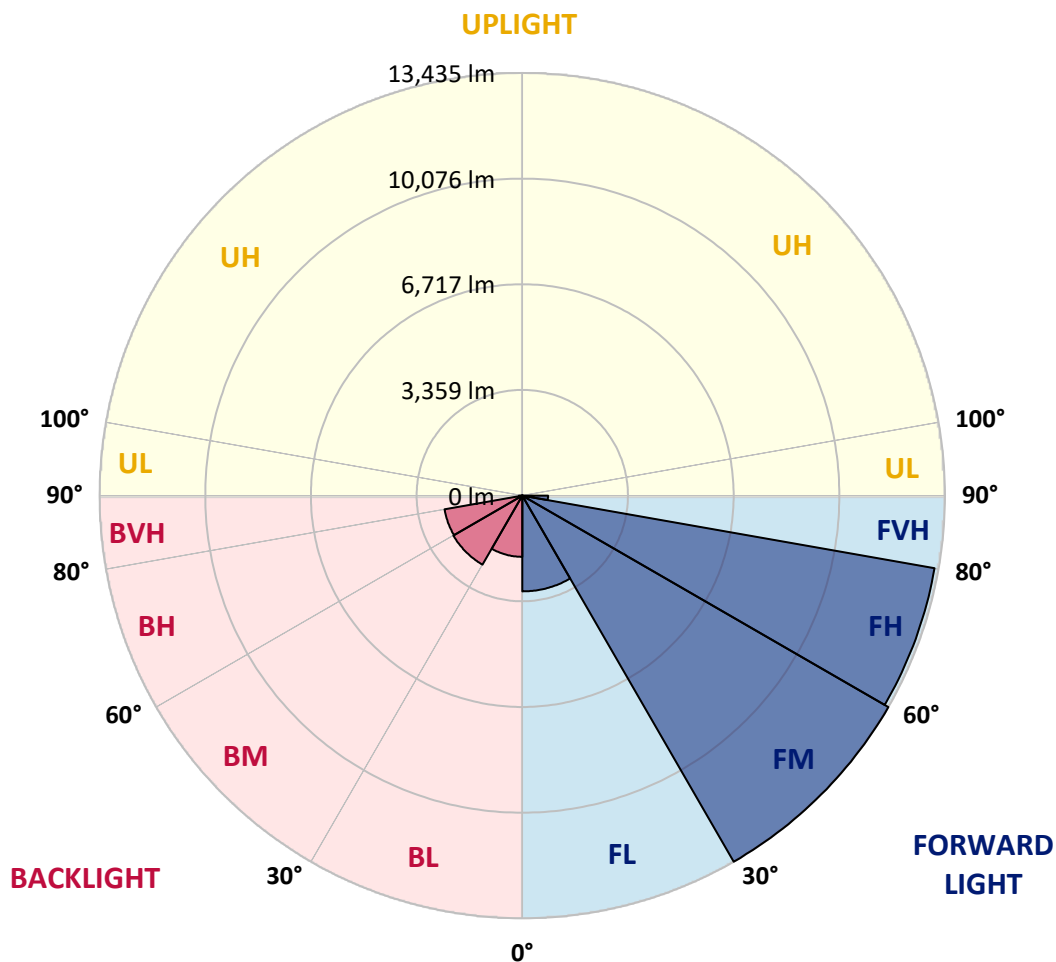
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3043.3	8.1			
FM	(30°-60°)	13434.6	35.6			
FH	(60°-80°)	13304.1	35.3			G5
FVH	(80°-90°)	818.4	2.2			G5
BL	(0°-30°)	1945.6	5.2	B3/2500		
BM	(30°-60°)	2530.6	6.7	B3/5000		
BH	(60°-80°)	2509.3	6.7	B4/5000		G4/5000
BVH	(80°-90°)	102.1	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°	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2
2.5°	8398.5	8431.9	8469.5	8511.2	8590.5	8634.3	8665.6	8701.1	8705.3	8724.1	8709.5
5°	7778.6	7818.3	7874.6	7953.9	8072.9	8258.7	8450.7	8607.2	8626.0	8713.6	8738.7
7.5°	7261.0	7284.0	7329.9	7457.2	7626.3	7832.9	8112.6	8429.8	8475.7	8684.4	8757.5
10°	6839.4	6862.4	6916.6	7048.1	7215.1	7473.9	7780.7	8198.1	8235.7	8594.7	8761.6
12.5°	6524.3	6545.1	6603.6	6733.0	6925.0	7167.1	7505.2	7947.7	8001.9	8475.7	8722.0
15°	6284.3	6323.9	6371.9	6478.4	6680.8	6914.6	7242.2	7718.1	7761.9	8350.5	8694.9
17.5°	6182.0	6200.8	6234.2	6332.3	6480.4	6710.0	7039.8	7538.6	7590.8	8262.8	8688.6
20°	6186.2	6204.9	6211.2	6265.5	6371.9	6570.2	6895.8	7396.7	7459.3	8185.6	8699.0
22.5°	6328.1	6330.2	6307.2	6288.4	6330.2	6495.1	6793.5	7290.2	7363.3	8152.2	8707.4
25°	6547.2	6584.8	6551.4	6463.7	6386.5	6465.8	6753.9	7231.8	7300.7	8104.2	8696.9
27.5°	6902.0	6908.3	6881.2	6762.2	6561.8	6503.4	6737.2	7188.0	7246.4	8068.7	8644.8
30°	7377.9	7359.1	7334.1	7202.6	6887.4	6647.4	6772.6	7148.3	7208.8	8016.6	8582.2
32.5°	7860.0	7918.5	7895.5	7741.1	7332.0	6927.1	6887.4	7144.1	7194.2	7976.9	8513.3
35°	8371.4	8398.5	8507.0	8427.7	8008.2	7380.0	7102.4	7208.8	7248.5	7979.0	8465.3
37.5°	8772.1	8845.1	9099.8	9168.6	8774.2	7979.0	7450.9	7392.5	7409.2	8081.3	8484.1
40°	9256.3	9381.5	9709.2	9990.9	9732.1	8757.5	8043.7	7732.7	7753.6	8327.5	8607.2
42.5°	9869.9	9957.6	10397.9	10779.9	10738.1	9786.4	8761.6	8290.0	8300.4	8818.0	8951.6
45°	10587.9	10713.1	11207.7	11781.7	11879.8	10951.0	9798.9	9133.1	9126.9	9579.8	9594.4
47.5°	11506.2	11583.4	12073.9	12700.0	13096.6	12414.1	11057.5	10343.7	10276.9	10690.1	10571.2
50°	12351.5	12472.5	12844.0	13528.6	14515.8	14127.6	12712.5	11913.2	11756.6	12142.7	11942.4
52.5°	12706.3	12833.6	13146.6	13996.1	15732.6	16344.1	14814.2	13785.3	13524.4	13820.8	13747.7
55°	12090.6	12255.5	12547.6	13580.8	16266.9	18900.8	17648.5	15949.6	15759.7	15632.4	15653.2
57.5°	10435.5	10592.0	10986.5	12126.1	15628.2	20756.2	21695.4	18731.7	18324.7	17738.3	17838.4
60°	7943.5	8041.6	8246.1	9508.8	13735.2	21238.3	26291.2	22248.5	21989.7	19835.8	19906.8
62.5°	5641.4	5752.0	5894.0	6524.3	10055.6	19879.6	29889.4	27159.4	26234.8	22008.5	21939.6
65°	4581.2	4506.0	4677.2	4971.5	5900.2	15407.0	30699.2	33975.9	32702.8	24869.9	23914.0
67.5°	3767.2	3687.9	3857.0	4380.8	4487.3	8943.2	27781.4	38400.6	38145.9	27981.7	25919.7
69°	3335.2	3293.4	3441.6	4038.5	4307.8	6351.0	24202.0	39016.2	39076.8	29816.3	26228.6
70°	3005.4	3022.1	3166.1	3865.3	4226.4	5236.5	20685.2	38166.8	38680.2	30732.5	25894.6
72.5°	2212.3	2247.8	2448.2	3201.6	4149.2	4443.4	12309.7	33337.2	34245.1	30786.8	23688.6
75°	1546.5	1529.8	1707.2	2410.6	3919.6	4403.8	7229.7	25781.9	26810.9	26610.5	19904.7
77.5°	1012.2	1039.4	1181.3	1703.1	3297.6	4370.4	4712.7	18291.3	18959.2	17796.7	11773.3
80°	713.8	711.7	791.0	1162.5	2446.1	4199.2	3859.0	11529.1	11360.1	6993.9	3491.7
82.5°	409.1	438.3	530.1	818.1	1636.3	3696.3	3550.2	5514.1	5034.1	1993.2	1179.2
85°	227.5	237.9	315.2	494.6	955.9	2784.2	3099.3	2508.7	2366.8	832.8	507.2
87.5°	73.0	79.3	131.5	250.5	434.1	1314.9	1755.3	1158.3	1068.6	300.5	204.5
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°	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2	8703.2
2.5°	8715.7	8740.8	8674.0	8609.3	8550.8	8469.5	8396.4	8335.9	8294.1	8287.9	8267.0
5°	8744.9	8747.0	8619.7	8448.6	8281.6	8097.9	7908.0	7772.4	7645.0	7574.1	7538.6
7.5°	8765.8	8747.0	8517.5	8239.9	7918.5	7584.5	7250.6	6983.4	6776.8	6695.4	6726.7
10°	8757.5	8699.0	8363.0	7918.5	7450.9	6952.1	6472.1	6096.4	5752.0	5574.6	5578.8
12.5°	8711.6	8615.5	8133.4	7557.4	6870.7	6202.9	5468.2	4961.0	4562.4	4326.6	4253.5
15°	8671.9	8504.9	7864.2	7066.9	6213.3	5259.5	4364.1	3738.0	3404.1	3218.3	3216.2
17.5°	8630.2	8398.5	7569.9	6547.2	5457.8	4230.6	3291.4	2813.4	2656.9	2675.7	2644.4
20°	8586.3	8273.3	7263.1	5969.1	4537.4	3155.7	2464.9	2270.8	2314.6	2400.2	2412.7
22.5°	8536.2	8139.7	6933.3	5332.5	3568.9	2375.1	1999.4	1970.2	2082.9	2216.5	2235.3
25°	8459.0	7972.7	6518.0	4666.8	2752.9	1913.9	1751.1	1771.9	1882.6	1995.3	2007.8
27.5°	8350.5	7766.1	6098.5	3836.1	2068.3	1642.5	1600.8	1627.9	1682.2	1751.1	1767.8
30°	8204.4	7532.3	5616.4	3118.1	1657.2	1506.9	1490.2	1504.8	1536.1	1565.3	1573.7
32.5°	8058.3	7306.9	5130.1	2387.6	1477.7	1417.1	1400.4	1400.4	1400.4	1404.6	1406.7
35°	7922.6	7094.1	4608.3	1859.6	1383.7	1346.2	1323.2	1298.2	1294.0	1279.4	1279.4
37.5°	7847.5	6900.0	4053.1	1557.0	1314.9	1287.7	1256.4	1214.7	1191.7	1193.8	1189.6
40°	7862.1	6772.6	3548.1	1385.8	1258.5	1229.3	1181.3	1133.3	1118.7	1118.7	1114.5
42.5°	8027.0	6730.9	3063.9	1296.1	1204.3	1170.9	1110.3	1066.5	1058.2	1056.1	1060.2
45°	8406.8	6833.2	2629.7	1237.7	1158.3	1108.3	1047.7	1008.1	999.7	999.7	997.6
47.5°	9147.8	7165.0	2318.8	1200.1	1124.9	1060.2	997.6	958.0	943.4	939.2	939.2
50°	10299.8	7885.1	2087.1	1166.7	1083.2	1016.4	951.7	905.8	882.8	880.8	878.7
52.5°	11900.6	9007.9	1997.4	1141.6	1037.3	970.5	899.5	855.7	826.5	820.2	816.1
55°	13772.8	10575.3	2120.5	1122.9	989.3	918.3	845.3	799.4	772.2	759.7	757.6
57.5°	15941.3	12457.9	2588.0	1097.8	945.5	862.0	791.0	745.1	715.9	701.3	697.1
60°	17888.5	14392.6	3404.1	1083.2	907.9	801.4	728.4	686.7	659.5	644.9	642.8
62.5°	20027.8	16237.6	4378.7	1122.9	891.2	743.0	670.0	632.4	609.4	594.8	594.8
65°	22313.2	18084.7	5023.6	1256.4	916.2	697.1	607.3	576.0	555.2	544.7	542.6
67.5°	23853.5	18723.4	4138.7	1394.2	978.8	647.0	546.8	521.8	509.3	498.8	498.8
69°	23686.5	17915.7	3053.4	1429.7	997.6	622.0	513.4	494.6	477.9	473.8	469.6
70°	23158.5	16995.3	2558.8	1406.7	983.0	599.0	492.6	469.6	455.0	450.8	448.7
72.5°	20626.8	14739.1	1905.5	1223.0	836.9	519.7	436.2	415.3	402.8	396.5	396.5
75°	17137.2	12046.7	1488.1	972.6	655.3	438.3	373.6	356.9	346.5	342.3	340.2
77.5°	9604.8	6726.7	1068.6	761.8	496.7	354.8	313.1	298.5	288.0	283.8	283.8
80°	2675.7	1922.2	628.2	503.0	338.1	269.2	248.4	237.9	223.3	212.9	219.1
82.5°	1008.1	832.8	359.0	302.6	215.0	179.5	173.2	164.9	158.6	144.0	144.0
85°	490.5	404.9	229.6	160.7	119.0	93.9	89.7	85.6	81.4	71.0	73.0
87.5°	169.1	179.5	100.2	58.4	35.5	23.0	18.8	10.4	10.4	10.4	10.4
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)