

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: P456722

Luminaire Tested: **GALN-SA8A-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456722
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-SA8A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 33570 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

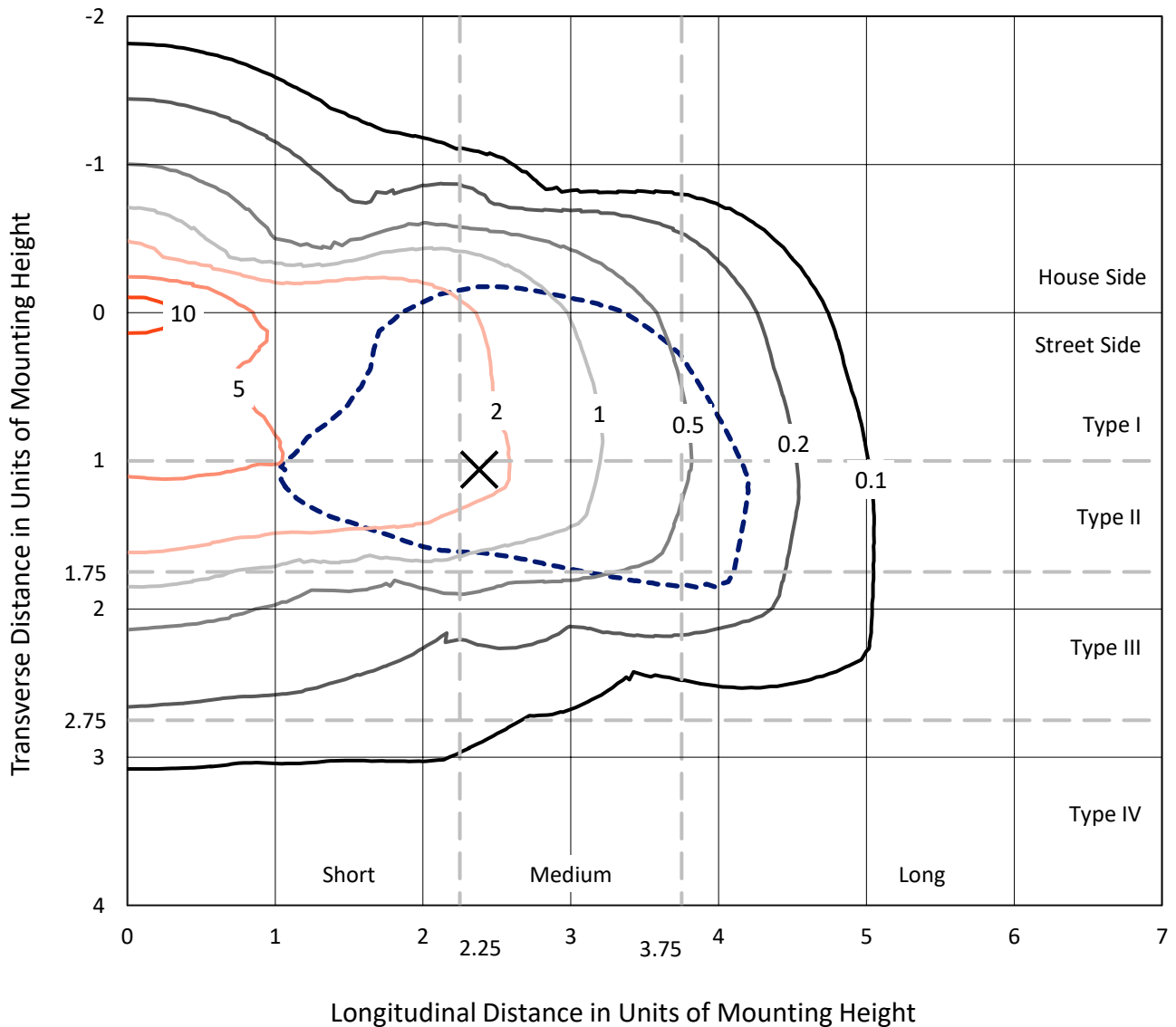
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

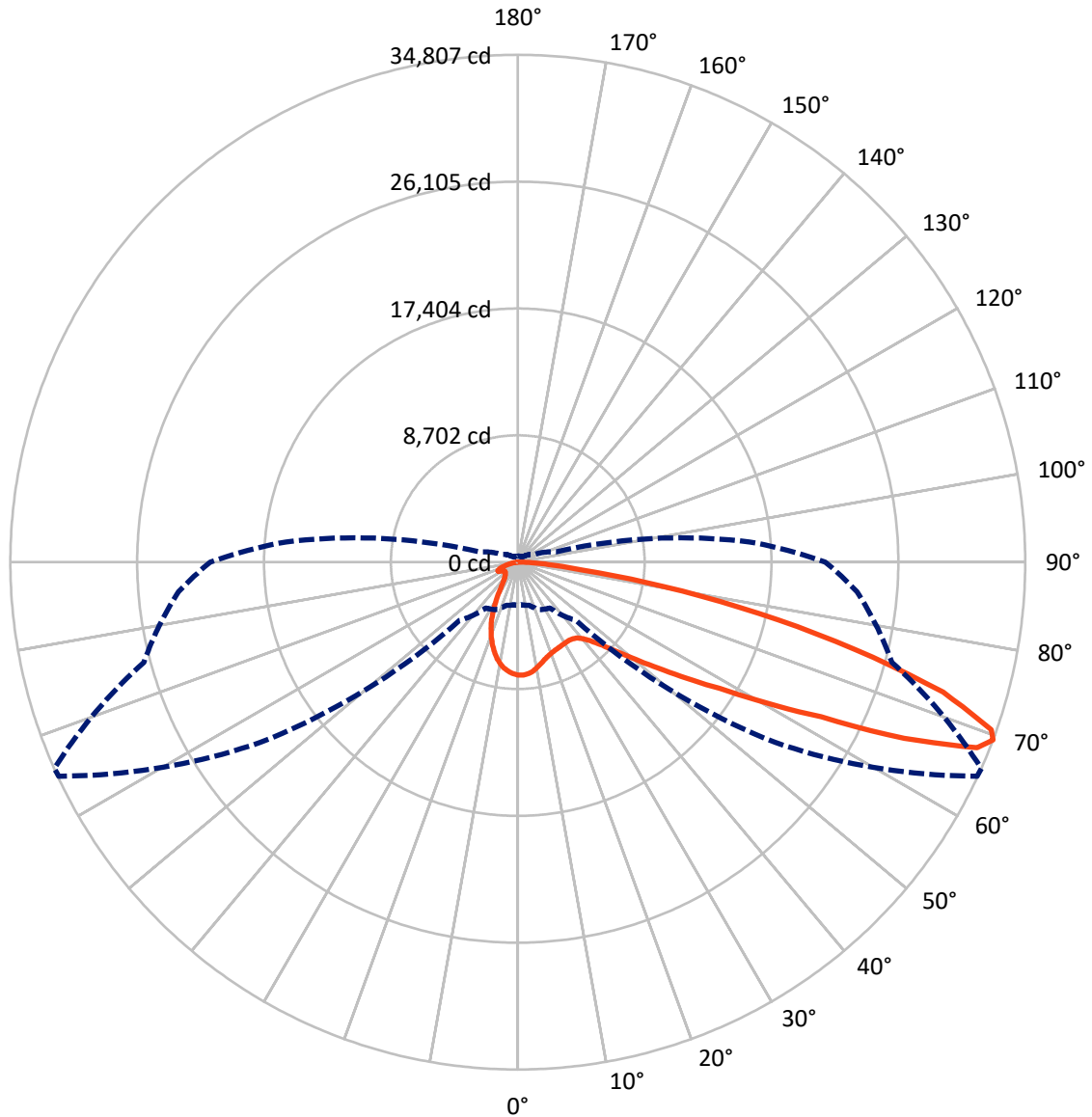
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	6313.2	0.0	6313.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27256.7	0.0	27256.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	33570.0	0.0	33570.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.2	2.0
10°-20°	1596.8	4.8
20°-30°	2173.8	6.5
30°-40°	2921.1	8.7
40°-50°	4361.7	13.0
50°-60°	6938.0	20.7
60°-70°	8533.4	25.4
70°-80°	5552.2	16.5
80°-90°	819.9	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°	33570.0	100.0
0°-180°	33570.0	100.0



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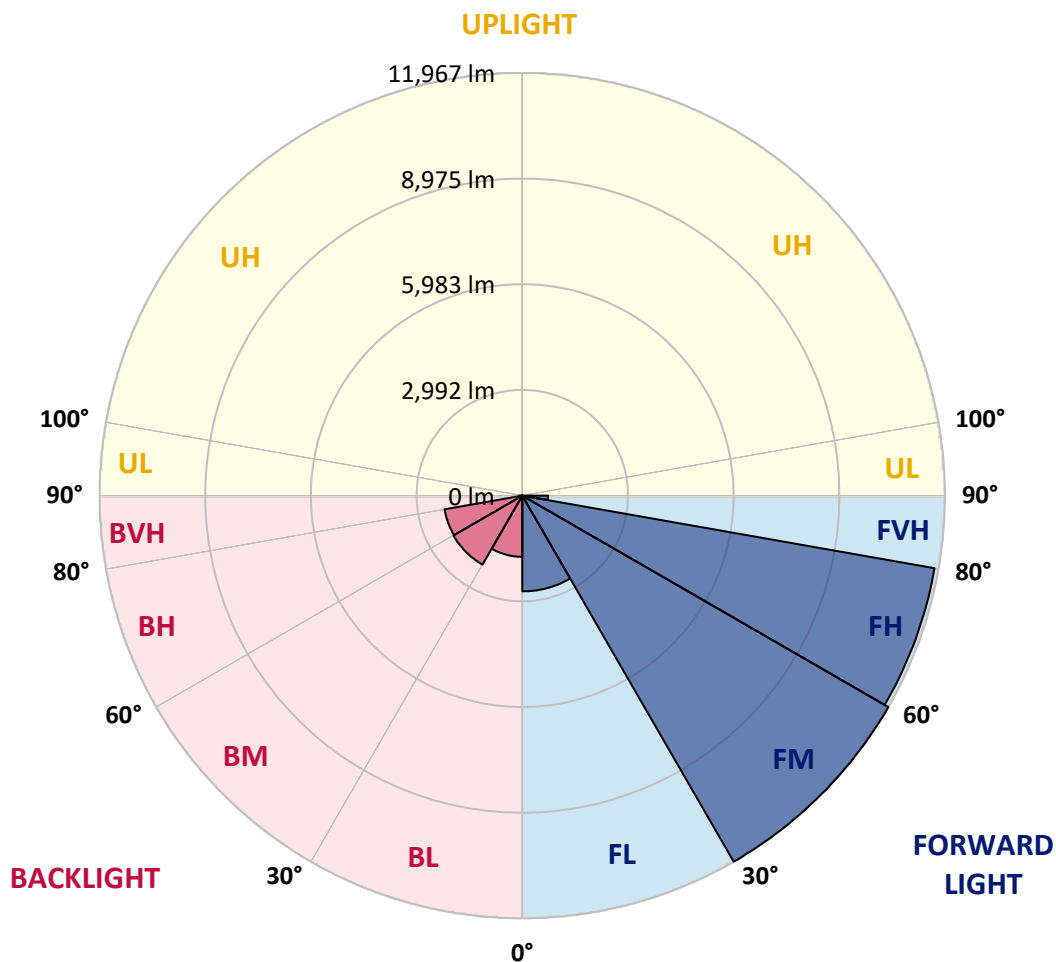
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2710.7	8.1			
FM	(30°-60°)	11966.7	35.6			
FH	(60°-80°)	11850.4	35.3			G4/12000
FVH	(80°-90°)	728.9	2.2			G4/750
BL	(0°-30°)	1733.0	5.2	B3/2500		
BM	(30°-60°)	2254.1	6.7	B2/2500		
BH	(60°-80°)	2235.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	91.0	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°	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2
2.5°	7480.8	7510.6	7544.0	7581.2	7651.9	7690.9	7718.8	7750.4	7754.1	7770.8	7757.8
5°	6928.7	6964.0	7014.2	7084.8	7190.8	7356.3	7527.3	7666.7	7683.5	7761.5	7783.8
7.5°	6467.6	6488.1	6529.0	6642.4	6793.0	6977.0	7226.1	7508.7	7549.6	7735.5	7800.6
10°	6092.1	6112.6	6160.9	6278.0	6426.7	6657.3	6930.5	7302.4	7335.8	7655.6	7804.3
12.5°	5811.4	5830.0	5882.0	5997.3	6168.3	6384.0	6685.2	7079.3	7127.6	7549.6	7769.0
15°	5597.6	5632.9	5675.7	5770.5	5950.8	6159.0	6450.9	6874.8	6913.8	7438.1	7744.8
17.5°	5506.5	5523.2	5553.0	5640.4	5772.4	5976.9	6270.6	6714.9	6761.4	7360.0	7739.2
20°	5510.2	5527.0	5532.5	5580.9	5675.7	5852.3	6142.3	6588.5	6644.3	7291.2	7748.5
22.5°	5636.6	5638.5	5618.1	5601.3	5638.5	5785.4	6051.2	6493.7	6558.7	7261.5	7756.0
25°	5831.8	5865.3	5835.6	5757.5	5688.7	5759.3	6015.9	6441.6	6503.0	7218.7	7746.7
27.5°	6147.9	6153.5	6129.3	6023.3	5844.9	5792.8	6001.0	6402.6	6454.6	7187.1	7700.2
30°	6571.7	6555.0	6532.7	6415.6	6134.9	5921.1	6032.6	6367.3	6421.2	7140.6	7644.4
32.5°	7001.2	7053.2	7032.8	6895.2	6530.8	6170.2	6134.9	6363.5	6408.2	7105.3	7583.1
35°	7456.7	7480.8	7577.5	7506.9	7133.2	6573.6	6326.4	6421.2	6456.5	7107.2	7540.3
37.5°	7813.6	7878.7	8105.5	8166.8	7815.5	7107.2	6636.8	6584.8	6599.6	7198.2	7557.0
40°	8244.9	8356.4	8648.3	8899.3	8668.8	7800.6	7164.8	6887.8	6906.4	7417.6	7666.7
42.5°	8791.5	8869.5	9261.8	9602.0	9564.8	8717.1	7804.3	7384.2	7393.4	7854.5	7973.5
45°	9431.0	9542.5	9983.1	10494.3	10581.7	9754.4	8728.2	8135.2	8129.6	8533.0	8546.1
47.5°	10249.0	10317.7	10754.6	11312.3	11665.5	11057.6	9849.3	9213.5	9154.0	9522.1	9416.1
50°	11001.9	11109.7	11440.6	12050.4	12929.7	12583.9	11323.5	10611.5	10472.0	10816.0	10637.5
52.5°	11317.9	11431.3	11710.2	12466.8	14013.5	14558.2	13195.5	12279.0	12046.7	12310.6	12245.6
55°	10769.5	10916.4	11176.6	12096.8	14489.4	16835.6	15720.1	14206.9	14037.7	13924.3	13942.9
57.5°	9295.3	9434.7	9786.0	10801.1	13920.6	18488.3	19324.8	16685.0	16322.5	15800.1	15889.3
60°	7075.6	7162.9	7345.1	8469.8	12234.4	18917.7	23418.5	19817.5	19587.0	17668.4	17731.6
62.5°	5025.0	5123.5	5250.0	5811.4	8956.9	17707.5	26623.5	24191.8	23368.3	19603.7	19542.4
65°	4080.6	4013.7	4166.1	4428.3	5255.5	13723.5	27344.8	30263.5	29129.5	22152.5	21301.0
67.5°	3355.6	3284.9	3435.5	3902.1	3997.0	7966.0	24745.8	34204.7	33977.9	24924.3	23087.6
69°	2970.8	2933.6	3065.6	3597.3	3837.1	5657.1	21557.6	34753.1	34807.0	26558.4	23362.7
70°	2677.0	2691.9	2820.2	3443.0	3764.6	4664.4	18425.1	33996.5	34453.8	27374.5	23065.3
72.5°	1970.6	2002.2	2180.7	2851.8	3695.8	3957.9	10964.7	29694.6	30503.3	27422.9	21100.2
75°	1377.6	1362.7	1520.7	2147.2	3491.3	3922.6	6439.8	22964.9	23881.4	23702.9	17729.8
77.5°	901.6	925.8	1052.2	1517.0	2937.3	3892.9	4197.7	16292.7	16887.6	15852.1	10486.9
80°	635.8	633.9	704.6	1035.5	2178.8	3740.4	3437.4	10269.4	10118.8	6229.7	3110.2
82.5°	364.4	390.4	472.2	728.7	1457.5	3292.4	3162.2	4911.6	4484.0	1775.4	1050.4
85°	202.6	211.9	280.7	440.6	851.4	2480.0	2760.7	2234.6	2108.2	741.8	451.7
87.5°	65.1	70.6	117.1	223.1	386.7	1171.2	1563.5	1031.8	951.8	267.7	182.2
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°	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2	7752.2
2.5°	7763.4	7785.7	7726.2	7668.6	7616.5	7544.0	7479.0	7425.1	7387.9	7382.3	7363.7
5°	7789.4	7791.3	7677.9	7525.4	7376.7	7213.1	7043.9	6923.1	6809.7	6746.5	6714.9
7.5°	7808.0	7791.3	7586.8	7339.5	7053.2	6755.8	6458.3	6220.4	6036.3	5963.8	5991.7
10°	7800.6	7748.5	7449.2	7053.2	6636.8	6192.5	5764.9	5430.3	5123.5	4965.5	4969.2
12.5°	7759.7	7674.2	7244.7	6731.6	6120.0	5525.1	4870.7	4419.0	4063.9	3853.8	3788.7
15°	7724.4	7575.6	7004.9	6294.7	5534.4	4684.8	3887.3	3329.6	3032.1	2866.7	2864.8
17.5°	7687.2	7480.8	6742.8	5831.8	4861.4	3768.3	2931.7	2506.0	2366.6	2383.3	2355.4
20°	7648.1	7369.3	6469.5	5316.9	4041.6	2810.9	2195.5	2022.6	2061.7	2137.9	2149.1
22.5°	7603.5	7250.3	6175.8	4749.9	3179.0	2115.6	1781.0	1754.9	1855.3	1974.3	1991.0
25°	7534.7	7101.6	5805.8	4156.8	2452.1	1704.8	1559.7	1578.3	1676.9	1777.3	1788.4
27.5°	7438.1	6917.5	5432.1	3416.9	1842.3	1463.1	1425.9	1450.1	1498.4	1559.7	1574.6
30°	7307.9	6709.3	5002.7	2777.4	1476.1	1342.2	1327.4	1340.4	1368.3	1394.3	1401.7
32.5°	7177.8	6508.5	4569.5	2126.8	1316.2	1262.3	1247.4	1247.4	1247.4	1251.1	1253.0
35°	7057.0	6318.9	4104.8	1656.4	1232.6	1199.1	1178.6	1156.3	1152.6	1139.6	1139.6
37.5°	6990.0	6146.0	3610.3	1386.9	1171.2	1147.0	1119.1	1082.0	1061.5	1063.4	1059.7
40°	7003.0	6032.6	3160.4	1234.4	1121.0	1095.0	1052.2	1009.5	996.5	996.5	992.7
42.5°	7149.9	5995.4	2729.1	1154.5	1072.7	1042.9	989.0	950.0	942.5	940.7	944.4
45°	7488.3	6086.5	2342.4	1102.4	1031.8	987.2	933.2	897.9	890.5	890.5	888.6
47.5°	8148.2	6382.1	2065.4	1069.0	1002.0	944.4	888.6	853.3	840.3	836.6	836.6
50°	9174.4	7023.5	1859.1	1039.2	964.8	905.4	847.7	806.8	786.4	784.5	782.7
52.5°	10600.3	8023.7	1779.1	1016.9	923.9	864.5	801.3	762.2	736.2	730.6	726.9
55°	12267.9	9419.8	1888.8	1000.2	881.2	818.0	752.9	712.0	687.8	676.7	674.8
57.5°	14199.4	11096.7	2305.2	977.9	842.2	767.8	704.6	663.7	637.7	624.6	620.9
60°	15933.9	12820.0	3032.1	964.8	808.7	713.9	648.8	611.6	587.5	574.4	572.6
62.5°	17839.5	14463.4	3900.3	1000.2	793.8	661.8	596.8	563.3	542.8	529.8	529.8
65°	19875.1	16108.7	4474.7	1119.1	816.1	620.9	541.0	513.1	494.5	485.2	483.4
67.5°	21247.1	16677.6	3686.5	1241.8	871.9	576.3	487.1	464.8	453.6	444.3	444.3
69°	21098.4	15958.1	2719.8	1273.5	888.6	554.0	457.3	440.6	425.7	422.0	418.3
70°	20628.0	15138.3	2279.2	1253.0	875.6	533.5	438.7	418.3	405.3	401.6	399.7
72.5°	18373.0	13128.6	1697.3	1089.4	745.5	462.9	388.5	370.0	358.8	353.2	353.2
75°	15264.7	10730.4	1325.5	866.3	583.7	390.4	332.8	317.9	308.6	304.9	303.0
77.5°	8555.4	5991.7	951.8	678.6	442.5	316.0	278.9	265.8	256.5	252.8	252.8
80°	2383.3	1712.2	559.6	448.0	301.2	239.8	221.2	211.9	198.9	189.6	195.2
82.5°	897.9	741.8	319.8	269.6	191.5	159.9	154.3	146.9	141.3	128.3	128.3
85°	436.9	360.7	204.5	143.1	106.0	83.7	79.9	76.2	72.5	63.2	65.1
87.5°	150.6	159.9	89.2	52.1	31.6	20.4	16.7	9.3	9.3	9.3	9.3
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)