

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: P299852

Luminaire Tested: **GLNA-AF-07-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40587.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

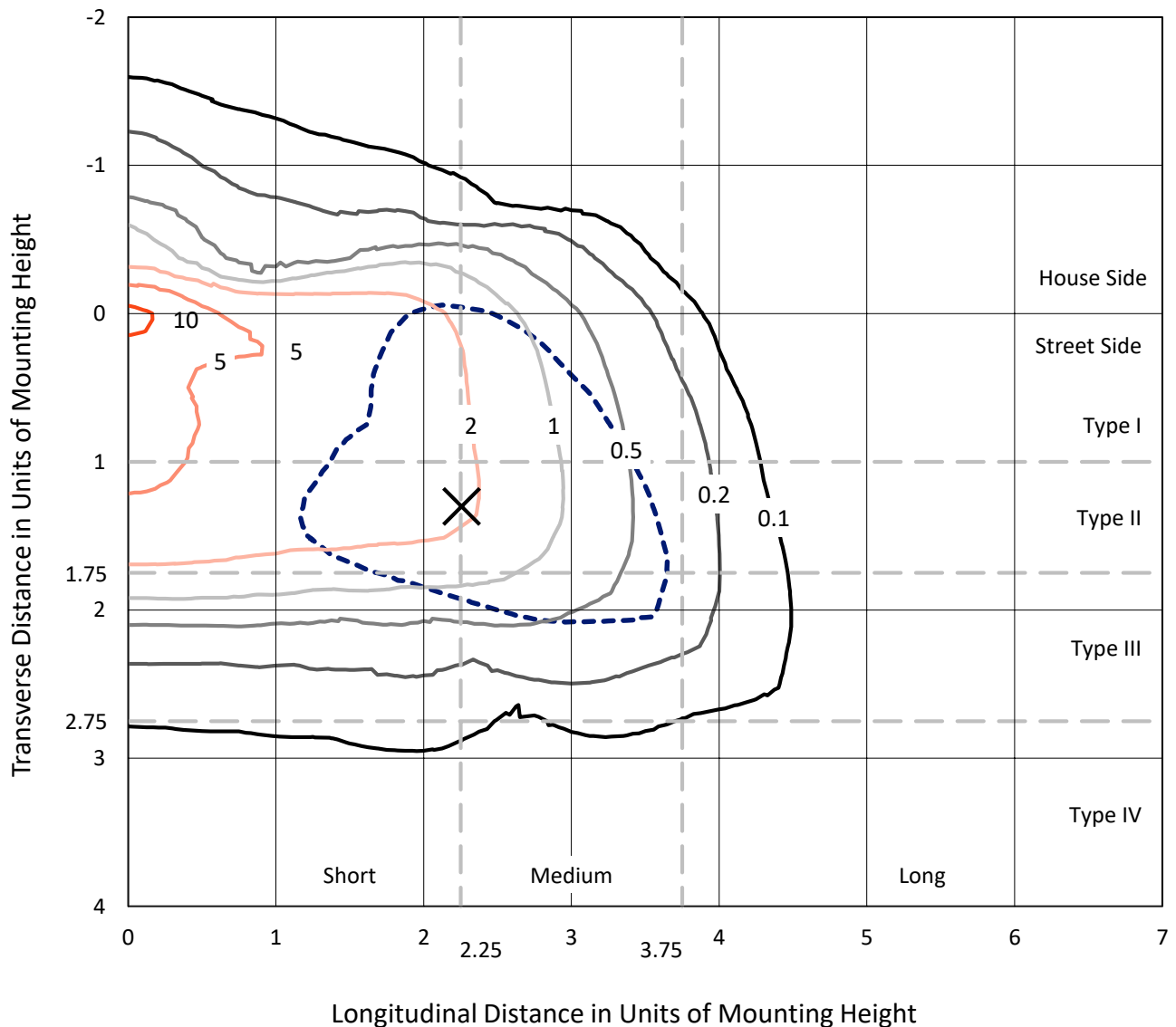
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

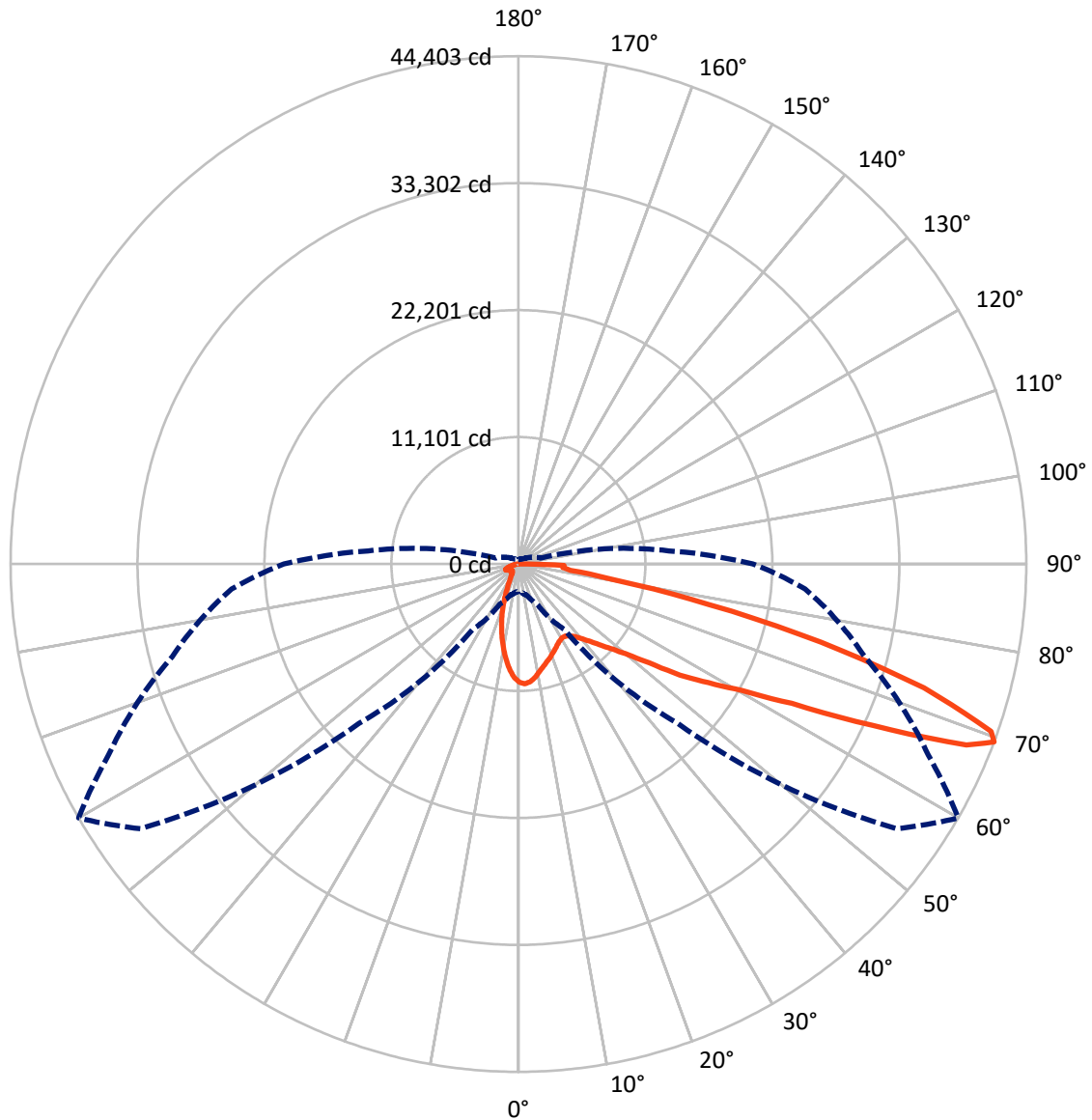
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5774.4	0.0	5774.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	34813.5	0.0	34813.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	40587.9	0.0	40587.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.5	2.2
10°-20°	1863.2	4.6
20°-30°	2374.0	5.8
30°-40°	3263.6	8.0
40°-50°	5295.6	13.0
50°-60°	8492.7	20.9
60°-70°	11303.2	27.8
70°-80°	6102.8	15.0
80°-90°	1018.3	2.5
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°	40587.9	100.0
0°-180°	40587.9	100.0

Coefficient of Utilization



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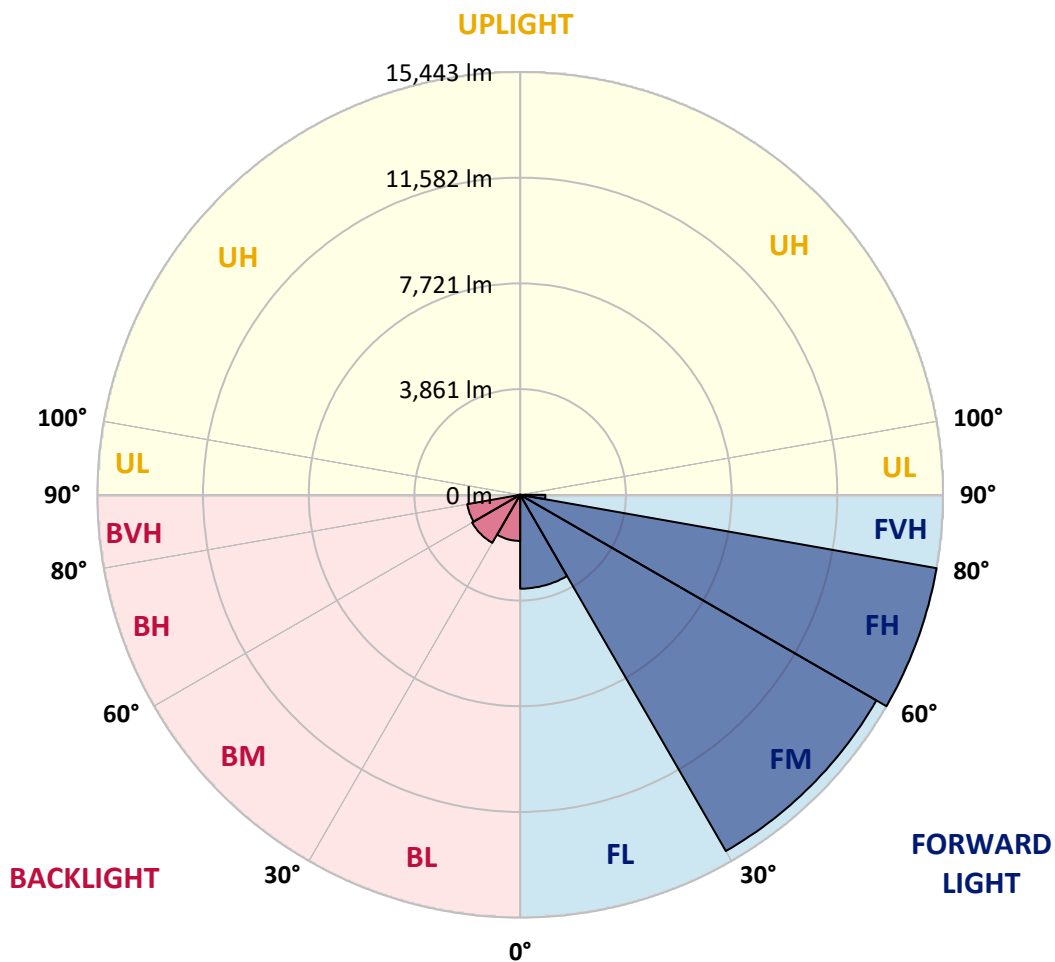
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3427.1	8.4			
FM	(30°-60°)	15023.3	37.0			
FH	(60°-80°)	15442.9	38.0			G5
FVH	(80°-90°)	920.2	2.3			G5
BL	(0°-30°)	1684.6	4.2	B3/2500		
BM	(30°-60°)	2028.6	5.0	B2/2500		
BH	(60°-80°)	1963.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	98.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4
2.5°	10554.2	10577.7	10567.9	10562.0	10579.7	10552.2	10495.3	10477.7	10450.3	10385.5	10275.8
5°	10158.1	10228.7	10224.8	10277.7	10365.9	10389.5	10364.0	10367.9	10316.9	10236.5	10054.2
7.5°	9473.8	9503.3	9518.9	9634.6	9795.4	9924.8	10034.6	10069.9	10046.4	9977.7	9742.5
10°	8768.0	8791.5	8828.8	8964.1	9168.0	9346.4	9554.2	9673.8	9724.8	9713.0	9450.3
12.5°	8162.2	8185.7	8234.7	8387.6	8630.8	8850.4	9152.3	9301.3	9422.9	9495.4	9213.1
15°	7619.1	7670.1	7717.1	7893.6	8166.1	8454.3	8795.5	8983.7	9171.9	9334.6	9003.3
17.5°	7195.6	7246.6	7274.0	7434.8	7725.0	8077.9	8477.8	8699.4	8934.7	9201.3	8795.5
20°	6950.5	6974.0	6962.3	7052.4	7313.2	7687.7	8162.2	8419.0	8703.3	9075.8	8587.6
22.5°	6881.9	6883.8	6840.7	6830.9	6999.5	7315.2	7824.9	8136.7	8485.7	8993.5	8409.2
25°	7048.5	7042.6	6925.0	6828.9	6846.6	7030.9	7499.5	7862.2	8303.3	8975.8	8272.0
27.5°	7419.1	7436.7	7262.2	7081.9	6903.4	6897.6	7252.4	7634.8	8154.3	9056.2	8213.2
30°	7938.7	7968.1	7781.8	7552.4	7217.1	6940.7	7156.4	7499.5	8062.2	9222.9	8203.3
32.5°	8507.2	8538.6	8397.5	8156.3	7717.1	7207.3	7223.0	7511.2	8058.3	9456.2	8270.0
35°	9113.1	9148.4	9075.8	8871.9	8383.7	7699.5	7477.9	7701.4	8185.7	9813.0	8448.4
37.5°	9789.5	9844.4	9864.0	9669.9	9148.4	8348.4	7895.5	8062.2	8473.9	10309.1	8775.9
40°	10764.0	10840.4	10834.5	10556.1	10024.8	9224.8	8540.6	8583.7	8922.9	10971.8	9299.4
42.5°	12630.5	12646.2	12158.0	11552.1	10989.4	10146.3	9301.3	9266.0	9542.5	11810.9	10069.9
45°	15004.8	14940.1	13853.9	12683.4	11997.2	11205.1	10291.4	10118.9	10328.7	12834.4	11034.5
47.5°	16975.3	16826.3	15453.8	13838.2	13063.8	12356.0	11454.1	11152.2	11267.8	13995.1	12281.5
50°	17659.6	17547.8	16410.6	14799.0	14073.5	13759.8	12885.4	12458.0	12489.3	15379.3	13742.2
52.5°	17512.5	17496.8	16738.0	15432.3	15018.6	15234.2	14912.7	14334.3	14028.4	16916.5	15318.5
55°	17165.5	17198.8	16924.3	16169.5	16098.9	16657.7	17561.5	17134.1	16183.2	18467.3	16947.8
57.5°	15959.7	16045.9	16649.8	17096.8	17838.0	18669.3	19694.7	19573.1	18502.6	20143.7	18885.0
60°	12857.9	13057.9	14677.4	16916.5	19628.0	22227.9	22686.7	22404.3	20894.6	22223.9	21443.6
62.5°	9009.2	9217.0	11142.4	14646.0	19333.9	26247.2	28035.3	26817.7	24329.7	25288.4	24755.1
65°	4823.2	4923.2	6393.7	10162.0	16322.4	27076.5	35852.4	33999.6	29768.5	29066.6	27588.3
67.5°	2660.6	2715.5	3278.2	5131.0	10454.2	23843.4	40832.4	42232.3	36566.1	31582.1	27072.6
69°	2405.7	2456.7	2825.3	3886.0	6995.6	19714.3	40346.2	44402.8	39546.3	31333.1	25166.9
70°	2352.8	2399.8	2731.2	3582.1	5662.3	16249.8	38716.9	43847.9	40256.0	30441.0	23504.2
72.5°	2117.5	2168.5	2490.0	3217.4	4838.9	8101.4	30668.4	37073.9	36548.4	26394.2	17828.2
75°	1974.4	2021.4	2566.5	3150.8	4633.0	5127.1	20218.2	27323.6	26866.8	18463.4	9613.1
77.5°	845.0	841.1	1190.1	2666.5	4701.6	4964.4	10863.9	17069.4	15573.4	7891.6	2760.6
80°	564.7	554.9	564.7	784.3	4311.5	4991.8	5691.8	8664.1	6544.6	2011.6	1360.7
82.5°	486.2	478.4	496.0	478.4	1515.6	5697.6	4838.9	4607.5	3111.5	1143.1	674.5
85°	327.4	313.7	427.4	429.4	715.6	5062.4	5450.6	3891.9	2517.5	678.4	333.3
87.5°	156.9	152.9	249.0	303.9	419.6	2056.7	6115.3	3988.0	2539.0	347.0	158.8
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°	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4	10342.4
2.5°	10242.4	10162.0	10083.6	9989.5	9891.5	9781.7	9726.8	9671.9	9658.1	9642.5	9587.6
5°	9960.1	9846.4	9650.3	9434.6	9207.2	8985.6	8817.0	8711.2	8630.8	8589.6	8517.1
7.5°	9595.4	9428.8	9085.6	8713.1	8330.8	7981.8	7679.9	7489.7	7309.3	7225.0	7128.9
10°	9248.4	8999.4	8466.1	7917.1	7368.1	6840.7	6344.7	5993.7	5682.0	5507.5	5383.9
12.5°	8950.4	8609.2	7870.0	7127.0	6374.1	5623.1	4880.1	4295.8	3807.6	3550.7	3419.4
15°	8660.2	8248.4	7303.4	6360.3	5393.7	4372.2	3395.8	2733.1	2329.2	2168.5	2113.6
17.5°	8397.5	7870.0	6734.8	5587.8	4382.0	3146.8	2282.2	1917.5	1762.6	1709.7	1692.0
20°	8113.2	7487.7	6144.7	4780.1	3327.2	2199.8	1782.2	1621.5	1558.7	1543.0	1535.2
22.5°	7838.7	7111.3	5580.0	3915.4	2390.0	1697.9	1531.3	1464.6	1454.8	1468.5	1468.5
25°	7605.4	6774.0	4970.2	3011.6	1754.8	1429.3	1370.5	1354.8	1392.1	1443.0	1452.8
27.5°	7430.9	6497.6	4321.3	2223.4	1397.9	1243.1	1241.1	1266.6	1358.7	1456.8	1476.4
30°	7311.3	6234.9	3627.2	1603.8	1172.5	1094.0	1125.4	1180.3	1315.6	1454.8	1492.1
32.5°	7250.5	6040.8	2903.7	1241.1	1003.9	960.7	1013.7	1080.3	1213.6	1343.0	1392.1
35°	7297.5	5897.6	2221.4	1035.2	886.2	852.9	907.8	972.5	1050.9	1105.8	1143.1
37.5°	7474.0	5840.8	1676.4	927.4	805.8	774.5	817.6	854.8	886.2	901.9	919.5
40°	7854.4	5901.5	1343.0	872.5	760.7	721.5	739.2	752.9	772.5	788.2	796.0
42.5°	8415.1	6083.9	1203.8	850.9	737.2	680.3	676.4	682.3	707.8	737.2	743.1
45°	9199.4	6405.4	1194.0	864.6	725.4	647.0	629.4	637.2	676.4	721.5	729.4
47.5°	10201.2	6895.6	1272.5	905.8	735.2	629.4	600.0	609.8	658.8	719.6	729.4
50°	11414.9	7579.9	1403.8	966.6	778.4	633.3	590.2	596.0	647.0	713.7	723.5
52.5°	12848.1	8550.4	1547.0	1025.4	823.5	658.8	598.0	584.3	631.3	690.1	701.9
55°	14442.1	9795.4	1694.0	1078.4	847.0	690.1	613.7	568.6	601.9	650.9	660.7
57.5°	16398.9	11536.4	1948.9	1129.3	862.7	711.7	629.4	552.9	564.7	600.0	607.8
60°	19047.7	13999.0	2397.9	1213.6	898.0	719.6	627.4	539.2	527.4	547.0	550.9
62.5°	22222.0	16673.3	2772.4	1319.5	956.8	725.4	615.6	529.4	496.0	496.0	500.0
65°	24106.2	17389.0	2564.5	1407.7	1005.8	719.6	601.9	519.6	472.5	450.9	452.9
67.5°	22508.2	15293.0	2197.9	1425.4	1003.9	692.1	580.4	501.9	449.0	415.7	413.7
69°	20506.4	13195.2	2033.2	1378.3	956.8	656.8	552.9	482.3	431.3	396.1	394.1
70°	18892.8	11914.9	1925.4	1327.4	905.8	631.3	531.3	464.7	417.6	384.3	380.4
72.5°	13736.3	7807.3	1645.0	1141.1	747.0	529.4	458.8	407.8	372.5	352.9	349.0
75°	6864.2	3723.3	1335.2	925.4	572.5	423.5	376.4	341.2	323.5	319.6	317.6
77.5°	2254.7	1705.8	954.8	690.1	425.5	331.3	303.9	278.4	274.5	286.3	282.3
80°	1239.1	992.1	605.8	456.8	290.2	243.1	239.2	225.5	231.4	251.0	247.0
82.5°	631.3	515.7	374.5	274.5	196.1	174.5	190.2	182.3	190.2	207.8	205.9
85°	311.7	282.3	237.2	166.7	129.4	111.8	135.3	141.2	145.1	158.8	158.8
87.5°	180.4	166.7	125.5	78.4	64.7	58.8	78.4	76.5	90.2	98.0	96.1
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)