

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: P300434

Luminaire Tested: **GLNA-AF-04-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-AFL-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15643.2 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

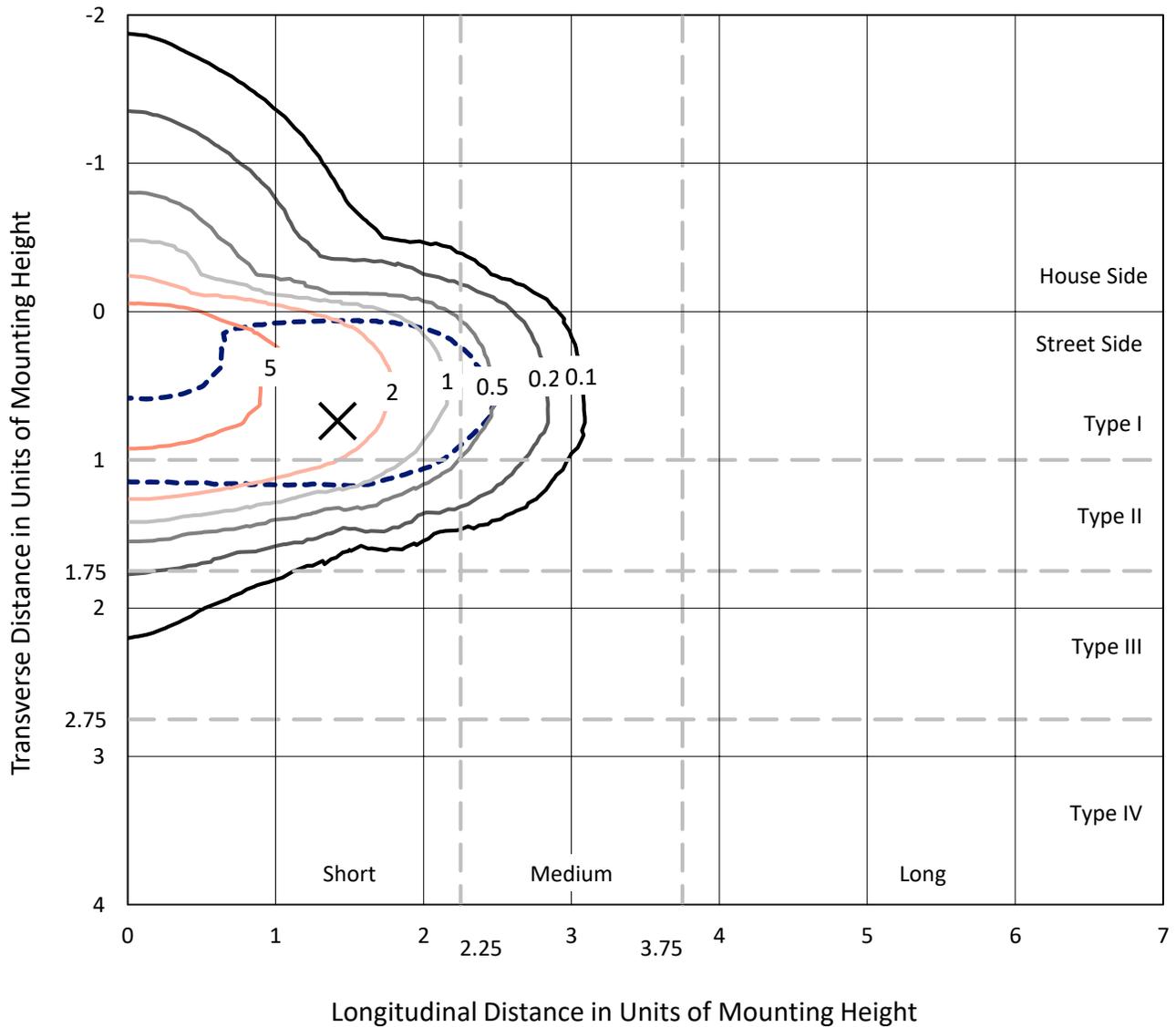
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

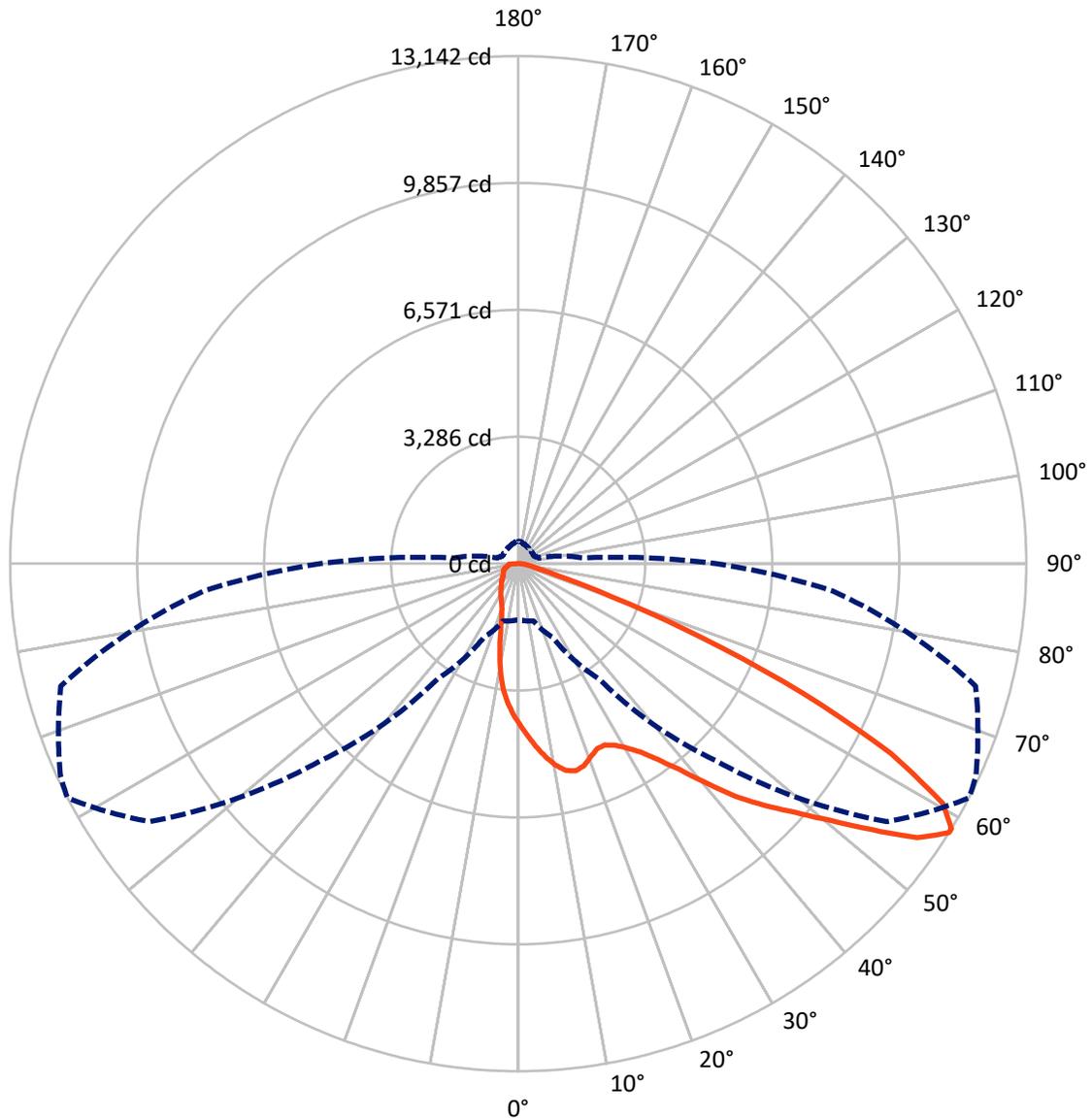
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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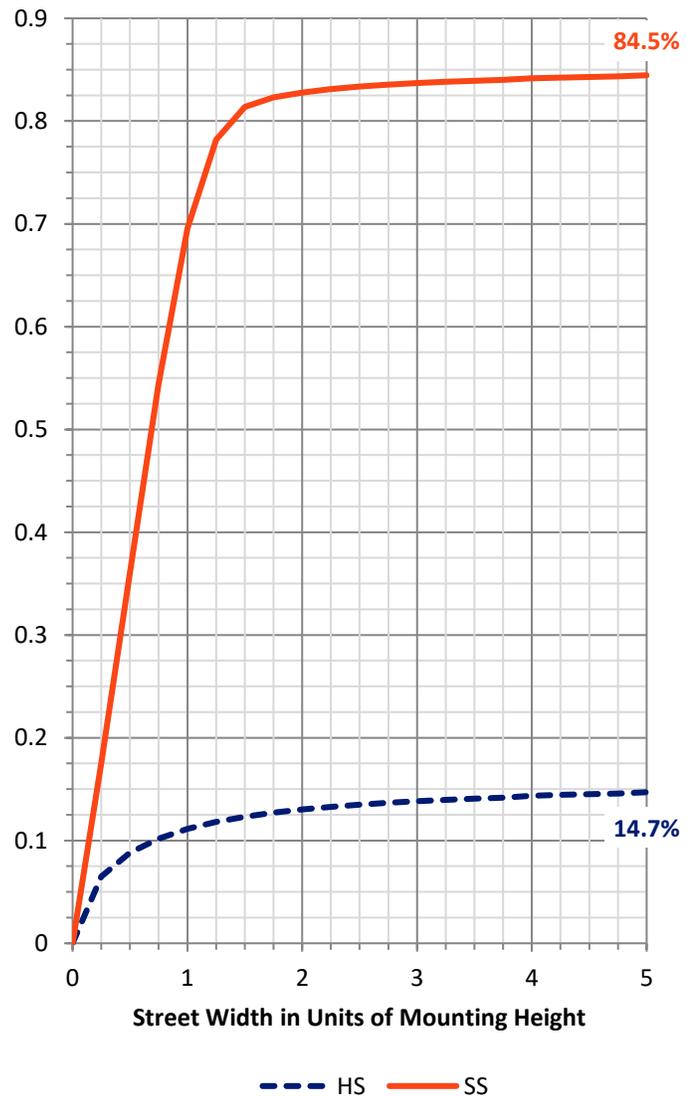
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2385.6	0.0	2385.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13257.5	0.0	13257.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	15643.2	0.0	15643.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.6	2.4
10°-20°	949.9	6.1
20°-30°	1535.6	9.8
30°-40°	2437.8	15.6
40°-50°	3567.0	22.8
50°-60°	3730.8	23.8
60°-70°	2204.1	14.1
70°-80°	620.9	4.0
80°-90°	225.4	1.4
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°	15643.2	100.0
0°-180°	15643.2	100.0

Coefficient of Utilization



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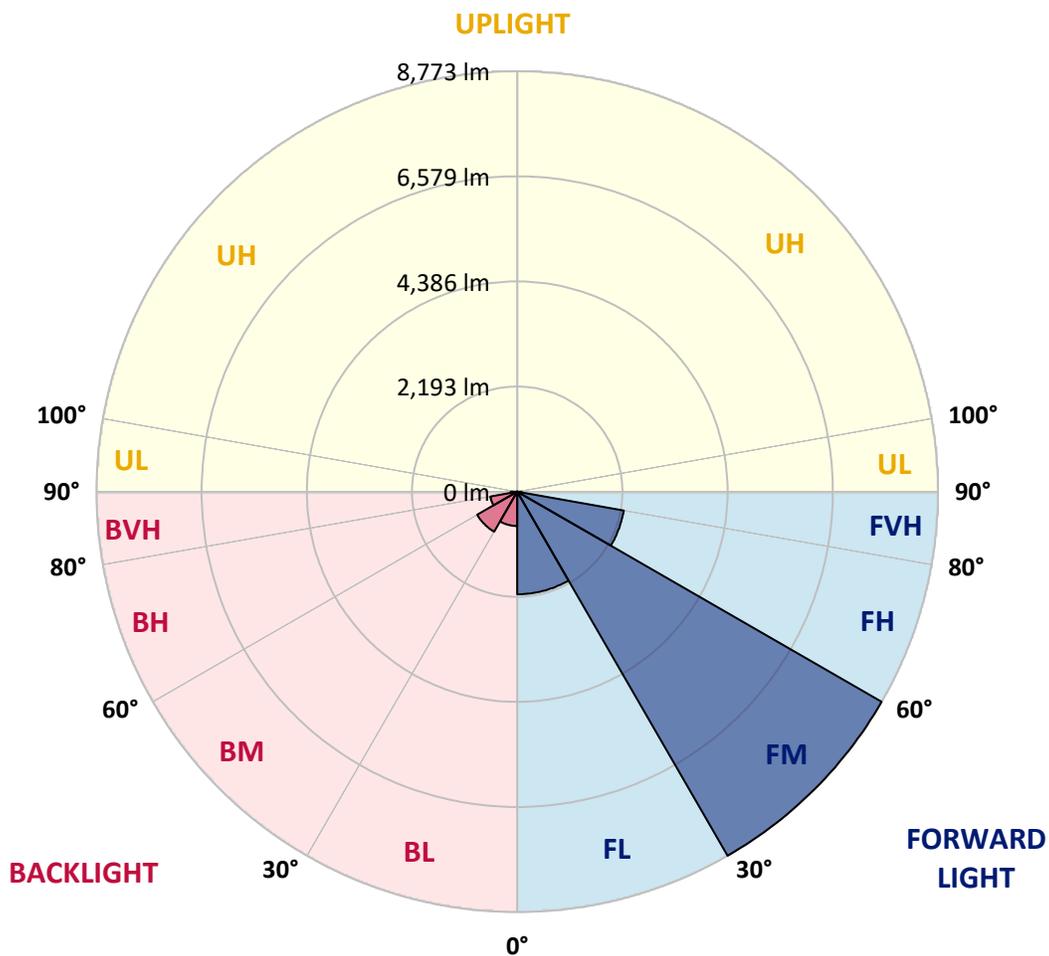
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2140.2	13.7			
FM	(30°-60°)	8772.6	56.1			
FH	(60°-80°)	2255.8	14.4			G2/5000
FVH	(80°-90°)	88.9	0.6			G1/100
BL	(0°-30°)	717.0	4.6	B2/1000		
BM	(30°-60°)	962.9	6.2	B1/1000		
BH	(60°-80°)	569.2	3.6	B2/1000		G2/1000
BVH	(80°-90°)	136.5	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3
2.5°	4748.3	4710.0	4685.7	4664.3	4636.3	4576.6	4496.3	4445.5	4419.7	4332.1	4228.2
5°	5213.8	5179.9	5154.9	5126.2	5076.1	4982.5	4852.9	4749.7	4698.9	4523.6	4315.9
7.5°	5104.8	5118.8	5162.2	5238.1	5302.9	5290.4	5174.8	5043.7	4976.6	4732.8	4417.5
10°	4447.7	4472.0	4547.2	4724.7	5012.0	5306.6	5396.5	5305.9	5238.1	4939.8	4522.1
12.5°	4315.9	4315.1	4321.0	4368.2	4539.1	4953.8	5403.9	5495.2	5454.7	5137.2	4628.9
15°	4369.6	4371.1	4366.7	4386.6	4439.6	4603.9	5178.5	5568.1	5596.9	5336.1	4739.4
17.5°	4511.1	4507.4	4490.5	4490.5	4509.6	4573.7	4913.3	5500.4	5633.0	5512.1	4836.7
20°	4748.3	4731.3	4686.4	4645.1	4624.5	4659.1	4804.3	5344.2	5570.3	5666.1	4917.0
22.5°	5035.6	5022.3	4949.4	4861.0	4789.5	4788.8	4860.2	5207.9	5462.1	5811.2	4984.7
25°	5406.8	5385.4	5277.2	5135.7	5010.5	4962.6	4982.5	5201.3	5403.1	5968.9	5045.1
27.5°	5842.9	5803.8	5675.7	5471.6	5287.5	5191.0	5162.2	5321.4	5456.9	6164.1	5129.1
30°	6371.8	6326.9	6162.6	5896.7	5636.6	5478.3	5417.1	5534.2	5635.2	6402.0	5263.9
32.5°	6973.6	6908.8	6718.7	6425.6	6083.8	5842.2	5742.7	5815.6	5895.9	6688.5	5432.6
35°	7805.3	7727.9	7453.1	7048.7	6662.7	6330.5	6171.4	6224.5	6302.5	7115.8	5676.4
37.5°	8372.5	8337.8	8155.1	7775.0	7355.2	6972.9	6726.8	6757.8	6802.0	7649.8	5988.7
40°	8367.3	8381.3	8385.0	8388.7	8102.8	7736.7	7472.3	7439.9	7431.0	8236.2	6343.8
42.5°	7948.2	8005.6	8191.2	8567.7	8741.5	8573.5	8331.2	8237.6	8191.2	8927.1	6720.2
45°	7306.6	7337.5	7685.2	8420.3	9068.6	9402.2	9218.8	8924.2	8840.2	9562.1	7032.5
47.5°	6975.8	7009.7	7228.5	8029.9	9064.9	10071.8	10177.9	9616.6	9466.3	10114.6	7302.1
50°	6188.4	6259.1	6534.6	7350.8	8734.1	10379.7	11180.5	10441.6	10130.8	10652.3	7572.5
52.5°	4742.4	4851.4	5160.0	6234.0	7895.1	10227.3	11982.6	11442.0	11002.9	11209.2	7804.5
55°	2991.4	3072.5	3331.7	4402.8	6315.8	9433.9	12286.9	12524.1	12133.6	11736.6	8005.6
57.5°	1626.5	1662.6	1759.8	2430.9	4108.1	7680.0	11843.4	13139.9	12977.8	12184.5	8157.4
58°	1455.6	1479.9	1540.3	2106.7	3643.3	7200.5	11646.7	13142.1	13061.1	12250.0	8169.1
60°	1079.9	1067.4	1013.6	1202.2	2027.9	4974.4	10457.8	12616.1	12854.1	12330.3	8111.7
62.5°	948.8	918.6	808.8	796.3	986.3	2291.6	8001.9	10807.0	11369.0	11872.1	7762.5
65°	891.3	858.9	717.5	671.8	711.6	969.4	4713.6	8105.1	8810.0	10482.9	6869.7
67.5°	848.6	806.6	659.3	596.7	599.6	640.9	1889.4	5104.8	5898.1	7959.2	5343.5
70°	807.3	761.7	609.9	537.7	520.8	506.8	751.4	2555.3	3275.0	5027.4	3406.9
72.5°	763.1	718.2	566.5	491.3	458.2	411.8	490.6	1045.3	1460.0	2378.6	1545.4
75°	699.1	658.5	523.0	450.1	402.9	341.1	370.5	545.8	654.9	947.3	744.7
77.5°	620.2	587.1	474.4	416.2	357.3	277.0	285.1	378.6	419.9	542.2	442.7
80°	445.7	457.4	422.1	374.2	318.2	224.7	218.8	276.2	298.3	348.4	288.0
82.5°	313.1	319.7	349.2	305.7	263.0	176.8	161.3	194.5	207.7	229.1	155.4
85°	215.8	208.5	239.4	212.9	190.0	117.9	110.5	131.9	140.0	142.2	80.3
87.5°	129.6	129.6	138.5	114.2	102.4	61.1	59.7	75.1	80.3	76.6	44.2
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°	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3	4155.3
2.5°	4166.3	4114.0	4002.8	3913.7	3801.0	3683.8	3618.3	3548.3	3500.4	3465.8	3521.1
5°	4198.0	4091.2	3861.4	3643.3	3402.5	3152.0	2962.0	2785.2	2662.2	2585.5	2657.7
7.5°	4248.1	4083.8	3717.7	3345.0	2912.6	2495.7	2122.9	1889.4	1753.2	1686.1	1728.1
10°	4305.6	4072.0	3549.0	2940.6	2321.8	1796.6	1518.2	1423.9	1393.0	1380.4	1386.3
12.5°	4353.4	4047.0	3342.1	2451.5	1743.6	1418.7	1338.4	1336.2	1342.9	1344.3	1346.5
15°	4387.3	4010.2	3034.9	1941.7	1394.4	1292.8	1288.4	1301.6	1314.1	1319.3	1322.2
17.5°	4410.2	3934.3	2687.9	1535.1	1249.3	1231.6	1241.9	1258.9	1272.1	1275.8	1278.8
20°	4407.9	3823.1	2274.7	1280.2	1170.5	1170.5	1188.2	1201.4	1202.2	1197.7	1200.0
22.5°	4385.1	3670.6	1874.0	1144.7	1100.5	1113.0	1130.7	1118.2	1066.6	1032.7	1035.0
25°	4346.8	3488.6	1530.7	1058.5	1035.7	1057.8	1052.6	958.3	884.7	851.5	851.5
27.5°	4312.9	3273.6	1267.0	983.4	970.9	998.1	906.8	821.3	790.4	774.9	769.8
30°	4288.6	3041.5	1090.9	911.2	909.7	889.8	786.7	763.1	758.0	745.5	741.0
32.5°	4294.5	2806.5	978.2	847.9	853.0	761.7	729.3	734.4	730.0	716.7	710.8
35°	4343.1	2583.3	904.6	790.4	774.9	688.0	695.4	704.9	703.5	685.1	679.2
37.5°	4430.0	2371.9	856.0	742.5	676.2	651.2	663.0	677.7	674.0	661.5	657.1
40°	4521.4	2173.0	816.2	704.9	618.0	626.1	636.4	644.5	648.2	651.9	649.0
42.5°	4610.5	1965.3	767.6	666.6	593.7	602.6	607.0	615.1	635.0	649.0	648.2
45°	4663.6	1770.1	717.5	612.1	574.6	579.7	576.8	593.0	617.3	640.1	640.9
47.5°	4722.5	1618.4	677.7	562.0	556.1	559.8	551.0	567.2	589.3	617.3	620.2
50°	4793.9	1527.8	646.0	522.3	531.1	531.1	528.9	543.6	574.6	607.0	612.9
52.5°	4875.0	1510.1	619.5	493.5	506.1	505.3	507.5	529.6	563.5	595.2	600.3
55°	4973.7	1558.0	590.8	472.2	481.8	484.7	492.1	517.1	545.8	581.9	584.1
57.5°	5088.6	1655.2	567.9	455.2	459.7	469.2	481.0	503.8	534.8	574.6	576.8
58°	5107.7	1675.8	564.3	453.8	455.2	466.3	479.5	501.6	532.6	576.0	578.2
60°	5108.5	1744.3	556.1	447.1	438.3	456.7	471.4	493.5	528.9	581.2	586.4
62.5°	4927.3	1743.6	550.3	437.6	420.6	443.4	460.4	486.2	525.2	593.7	604.0
65°	4338.7	1584.5	522.3	422.8	406.6	431.7	450.8	481.0	535.5	648.2	654.9
67.5°	3393.6	1298.7	470.0	402.2	388.2	419.9	444.9	480.3	546.6	660.8	665.2
70°	2243.8	971.6	412.5	378.6	369.0	405.9	447.9	505.3	534.1	634.2	622.4
72.5°	1164.6	682.1	366.1	349.2	346.9	393.4	490.6	502.4	521.5	596.7	581.9
75°	611.4	473.6	325.6	316.7	320.4	390.4	579.0	489.1	505.3	570.9	598.9
77.5°	374.2	382.3	291.0	287.3	294.6	381.6	578.2	472.2	481.8	525.2	556.1
80°	250.5	310.1	264.4	265.2	270.3	349.2	519.3	445.7	453.0	496.5	528.2
82.5°	158.4	183.4	240.1	252.7	246.0	288.0	441.2	405.9	416.2	567.9	600.3
85°	80.3	114.9	208.5	243.1	221.7	201.8	358.0	355.8	360.9	409.6	428.0
87.5°	36.8	63.3	162.8	212.1	167.2	126.0	260.0	263.7	284.3	291.0	291.0
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)