

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: P193987

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35090 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

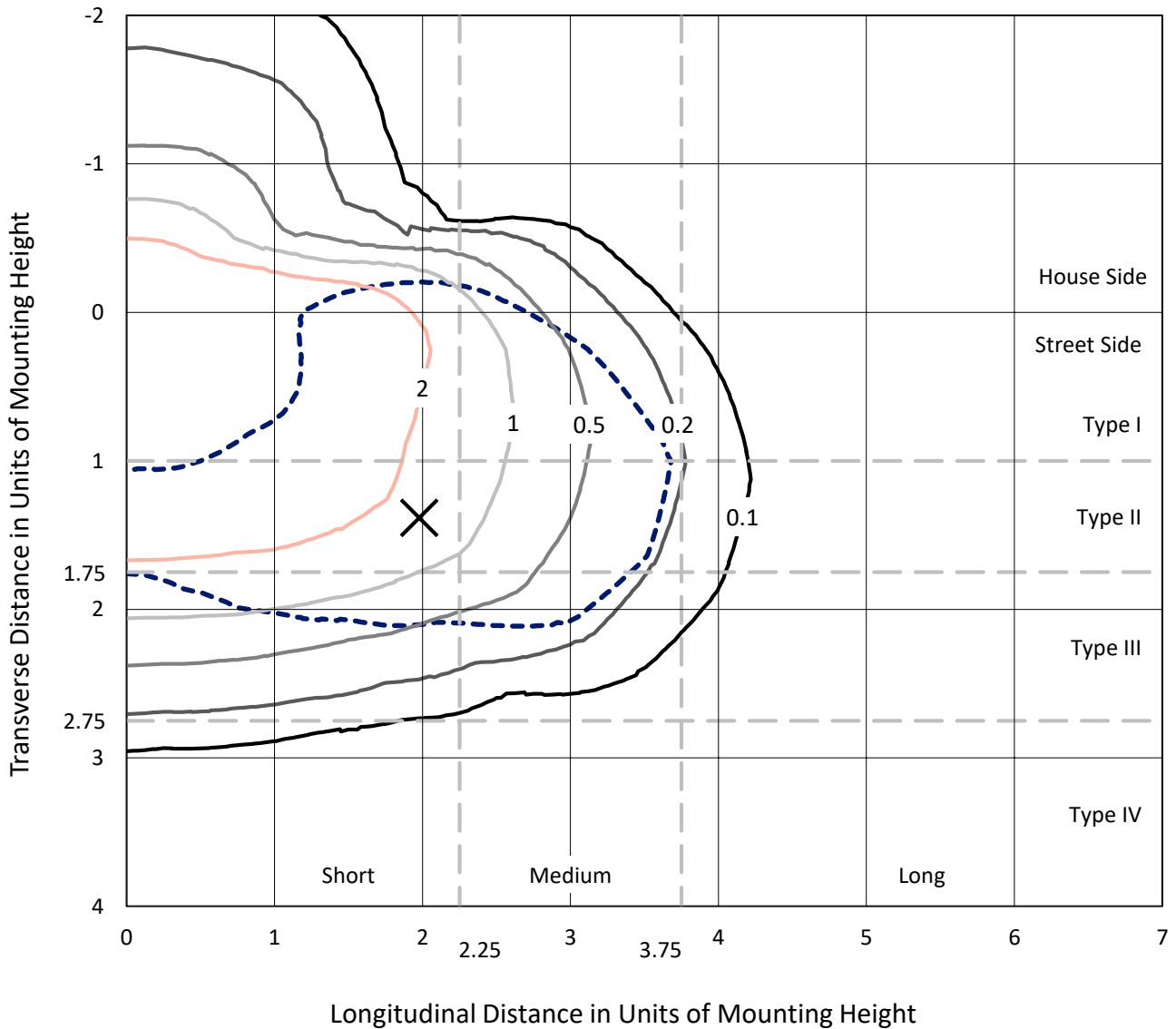
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

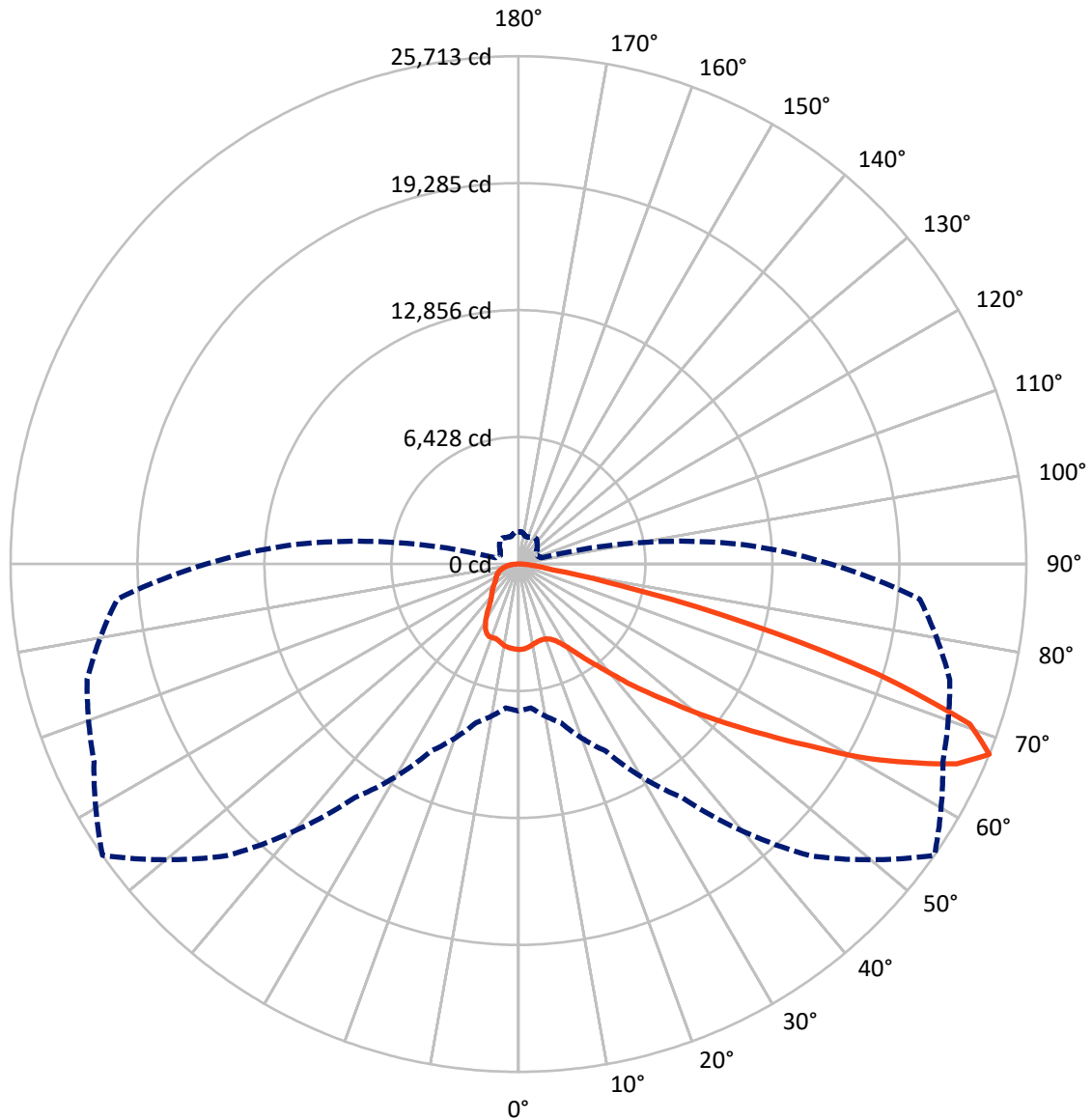
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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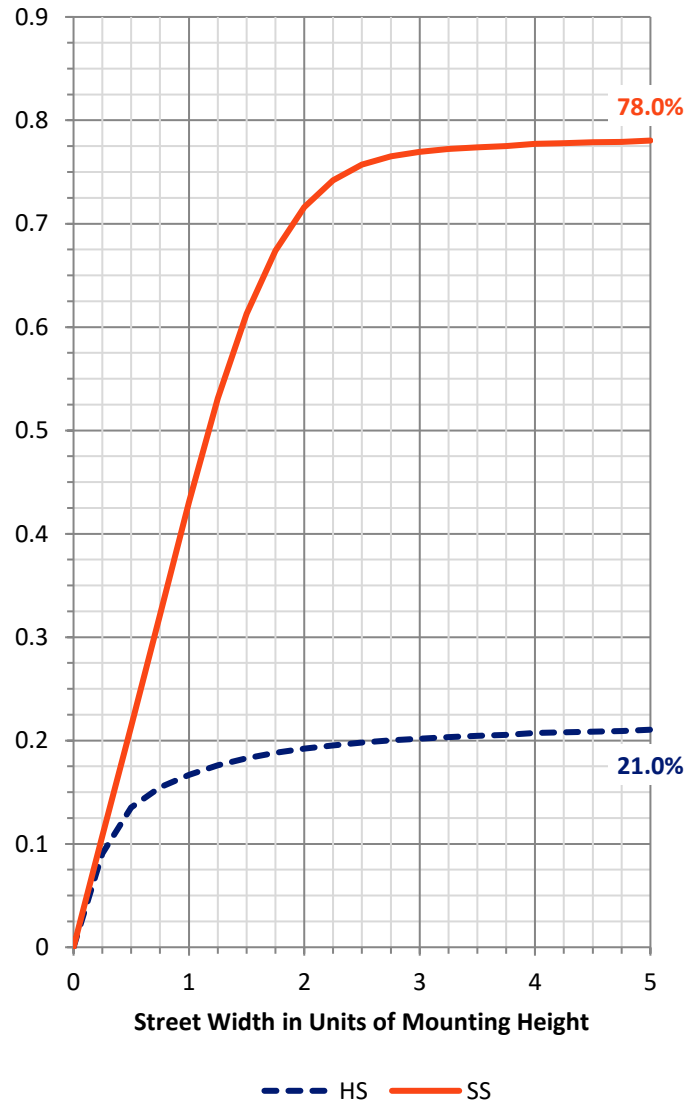
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7580.2	0.0	7580.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27509.8	0.0	27509.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	35090.0	0.0	35090.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.9	1.2
10°-20°	1143.8	3.3
20°-30°	1916.1	5.5
30°-40°	3150.9	9.0
40°-50°	5303.9	15.1
50°-60°	8347.9	23.8
60°-70°	9962.3	28.4
70°-80°	4278.0	12.2
80°-90°	583.3	1.7
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°	35090.0	100.0
0°-180°	35090.0	100.0



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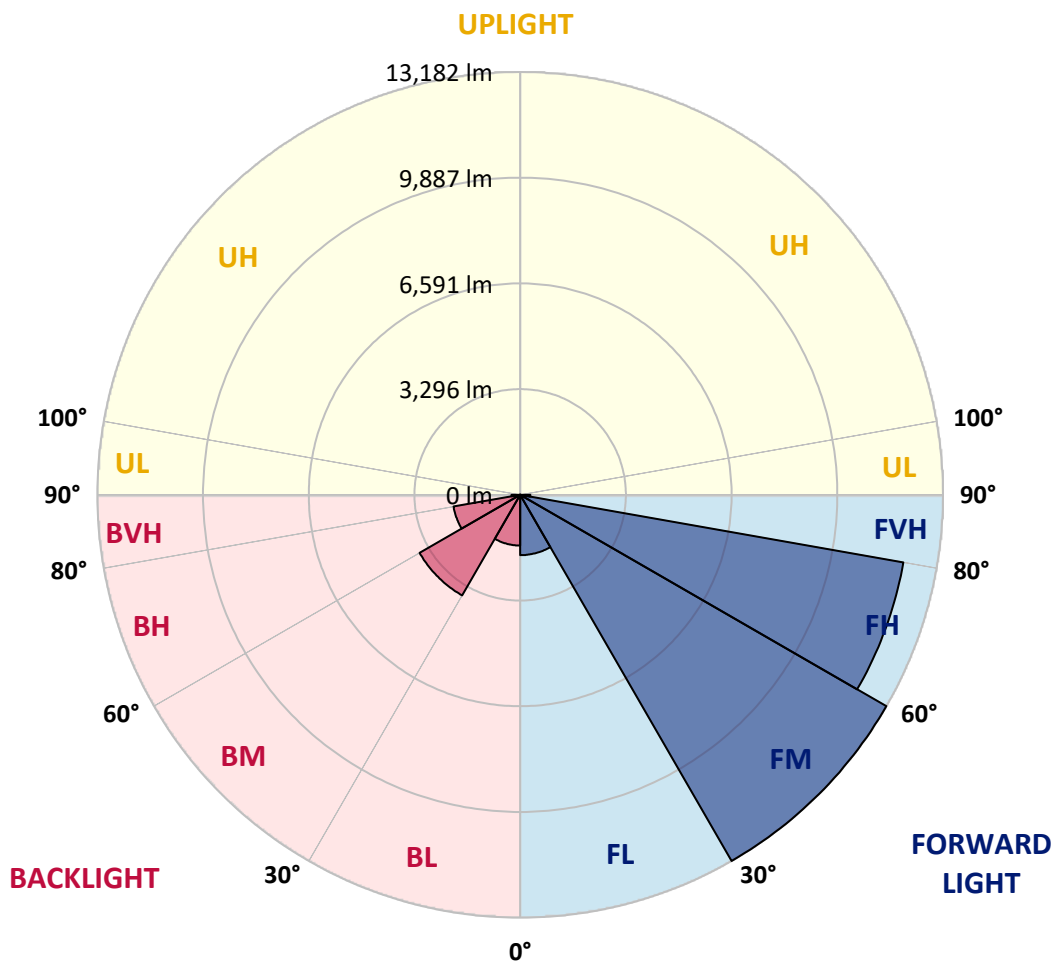
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1880.9	5.4			
FM	(30°-60°)	13182.4	37.6			
FH	(60°-80°)	12130.8	34.6			G5
FVH	(80°-90°)	315.7	0.9			G3/500
BL	(0°-30°)	1582.9	4.5	B3/2500		
BM	(30°-60°)	3620.2	10.3	B3/5000		
BH	(60°-80°)	2109.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	267.5	0.8			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0
2.5°	4289.7	4291.4	4294.8	4308.3	4320.2	4316.8	4318.5	4311.7	4310.0	4299.9	4310.0
5°	4235.5	4240.5	4242.2	4264.3	4277.8	4281.2	4276.1	4267.7	4257.5	4247.3	4252.4
7.5°	4111.7	4125.3	4127.0	4157.5	4179.5	4208.3	4210.0	4211.7	4206.6	4199.9	4210.0
10°	4033.8	4037.2	4035.5	4057.5	4074.4	4106.6	4125.3	4157.5	4171.1	4174.4	4181.2
12.5°	4028.7	4025.3	4020.2	4020.2	4015.1	4028.7	4062.6	4108.3	4140.5	4150.7	4159.2
15°	4082.9	4081.2	4064.3	4038.9	4006.7	3996.5	4025.3	4076.1	4118.5	4140.5	4149.0
17.5°	4205.0	4194.8	4167.7	4110.0	4040.5	4013.4	4016.8	4059.2	4108.3	4137.2	4145.6
20°	4428.7	4428.7	4371.0	4262.6	4138.9	4074.4	4043.9	4069.4	4116.8	4155.8	4167.7
22.5°	4815.1	4818.5	4721.9	4543.9	4335.5	4198.2	4121.9	4116.8	4172.7	4216.8	4230.4
25°	5362.5	5349.0	5213.4	4959.2	4642.2	4415.1	4282.9	4252.4	4299.9	4349.0	4366.0
27.5°	5999.8	5950.7	5789.6	5482.9	5072.7	4740.5	4537.1	4488.0	4533.8	4589.7	4606.6
30°	6630.3	6579.5	6387.9	6052.3	5596.4	5176.1	4884.6	4804.9	4869.3	4949.0	4959.2
32.5°	7260.8	7260.8	7047.2	6655.7	6159.1	5696.4	5347.3	5252.4	5359.2	5455.8	5477.8
35°	8015.0	8018.4	7811.6	7340.4	6806.6	6316.7	5932.0	5862.5	6023.5	6091.3	6143.9
37.5°	8942.1	8960.7	8694.6	8125.2	7540.4	7025.2	6567.6	6472.7	6633.7	6818.4	6987.9
40°	9943.7	9967.5	9674.3	8972.6	8387.9	7848.9	7354.0	7182.8	7450.6	7803.1	8021.8
42.5°	10899.7	11021.7	10738.6	10016.6	9387.8	8830.2	8328.5	8079.4	8415.0	8947.2	9137.0
45°	12281.0	12369.1	11875.9	11221.7	10630.2	10006.5	9342.1	9079.4	9548.8	10220.0	10259.0
47.5°	13201.3	13135.2	12884.3	12477.6	12103.0	11520.0	10520.0	10231.9	10855.6	11645.4	11426.8
50°	13691.1	13711.4	13677.5	13701.3	13714.8	13348.7	11964.0	11569.1	12313.2	13267.4	12764.0
52.5°	14148.7	14013.1	14125.0	14680.9	15352.1	15216.5	13535.2	13123.3	13875.8	15067.3	14177.5
55°	14138.5	13931.8	14296.2	15277.5	16733.4	16889.3	15299.5	14824.9	15528.3	16997.8	15675.8
57.5°	13638.5	13648.7	14209.7	15494.4	17696.0	18462.1	17346.9	16635.1	17280.8	18953.6	17043.5
60°	12950.4	13043.7	13852.1	15458.8	18467.2	19751.9	19858.7	18585.8	18997.7	20731.5	18175.7
62.5°	11840.3	11938.6	13053.8	15089.3	18350.3	20994.2	22129.8	20799.3	20792.6	21809.5	18507.9
65°	10089.5	10060.7	11231.8	13708.0	17368.9	21912.9	24385.7	22712.8	22145.1	21826.4	17840.1
67.5°	7440.4	7311.6	8316.7	10440.3	14436.8	20884.1	25712.7	23709.4	22606.1	20390.9	15799.5
70°	3860.9	3732.1	4545.6	6096.4	9494.6	16299.5	24243.3	23194.2	21587.4	17092.7	12377.6
72.5°	1650.8	1628.8	1959.3	2674.5	4593.1	9401.4	19009.6	20075.6	18523.1	12735.2	8509.9
75°	1110.1	1103.4	1227.1	1457.6	2066.0	3815.1	11896.2	14250.4	13552.1	7896.4	4786.3
77.5°	871.2	862.7	935.6	1047.4	1338.9	1505.0	5279.5	7650.6	7081.1	3437.2	2094.8
80°	681.3	674.6	720.3	781.3	962.7	949.1	1737.2	3044.0	2355.9	1316.9	1018.6
82.5°	537.3	537.3	574.6	576.3	683.0	647.4	906.8	1340.6	1176.2	767.8	623.7
85°	491.5	491.5	530.5	430.5	445.7	408.5	562.7	794.9	745.7	315.2	271.2
87.5°	247.4	240.7	445.7	381.3	242.4	216.9	274.6	384.7	413.5	174.6	135.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0	4327.0
2.5°	4306.6	4304.9	4308.3	4310.0	4323.6	4342.2	4350.7	4362.6	4369.4	4366.0
5°	4255.8	4259.2	4272.7	4282.9	4306.6	4337.1	4354.1	4367.7	4379.5	4374.4
7.5°	4213.4	4221.9	4242.2	4250.7	4264.3	4272.7	4271.0	4276.1	4286.3	4274.4
10°	4189.7	4199.9	4215.1	4203.3	4171.1	4125.3	4082.9	4060.9	4067.7	4059.2
12.5°	4166.0	4179.5	4167.7	4111.7	4021.9	3962.6	3930.4	3933.8	3949.0	3952.4
15°	4152.4	4157.5	4106.6	4001.6	3910.0	3901.6	3918.5	3915.1	3916.8	3916.8
17.5°	4152.4	4138.9	4043.9	3938.9	3899.9	3884.6	3832.1	3766.0	3737.2	3727.0
20°	4174.4	4138.9	4023.6	3954.1	3869.4	3738.9	3599.9	3477.9	3423.6	3408.4
22.5°	4240.5	4179.5	4081.2	3960.9	3720.2	3501.6	3281.3	3135.5	3037.2	3020.2
25°	4374.4	4306.6	4194.8	3871.1	3482.9	3171.1	2920.2	2757.5	2659.2	2645.7
27.5°	4608.3	4564.3	4255.8	3672.8	3167.7	2833.8	2601.6	2476.2	2403.3	2398.2
30°	4960.9	4938.8	4225.3	3379.6	2779.6	2506.7	2394.8	2322.0	2267.7	2266.0
32.5°	5523.6	5345.6	4125.3	3021.9	2425.3	2274.5	2228.7	2184.7	2142.3	2142.3
35°	6247.3	5674.4	3935.5	2638.9	2210.1	2145.7	2088.1	2018.6	1962.6	1959.3
37.5°	7098.1	5877.8	3594.8	2330.4	2108.4	2059.3	1974.5	1871.1	1772.8	1755.9
40°	7957.4	5938.8	3115.2	2140.6	2044.0	1972.8	1869.4	1747.4	1652.5	1647.4
42.5°	8745.5	5821.8	2606.7	2010.1	1979.6	1884.7	1776.2	1667.7	1593.2	1591.5
45°	9406.5	5518.5	2179.6	1886.4	1911.8	1805.0	1708.4	1620.3	1562.7	1550.8
47.5°	10028.5	5089.7	1879.6	1755.9	1844.0	1761.0	1679.6	1596.6	1540.6	1532.2
50°	10750.5	4627.0	1669.4	1628.8	1784.7	1745.7	1703.3	1616.9	1523.7	1513.5
52.5°	11625.1	4227.0	1505.0	1516.9	1738.9	1766.0	1764.4	1674.5	1511.8	1498.3
55°	12601.3	3782.9	1381.3	1425.4	1720.3	1803.3	1779.6	1728.8	1522.0	1501.6
57.5°	13562.3	3264.3	1294.9	1355.9	1693.2	1799.9	1706.7	1633.8	1545.7	1516.9
60°	14282.6	2567.7	1228.8	1294.9	1633.8	1744.0	1627.1	1530.5	1540.6	1518.6
62.5°	14330.1	1984.7	1149.1	1242.3	1544.0	1688.1	1574.5	1484.7	1562.7	1542.3
65°	13487.7	1500.0	1072.8	1179.6	1447.4	1652.5	1523.7	1459.3	1608.4	1586.4
67.5°	11355.6	1206.7	1008.4	1115.2	1350.8	1577.9	1477.9	1435.5	1649.1	1610.1
70°	8198.0	1028.8	945.7	1037.3	1264.4	1493.2	1437.2	1393.2	1538.9	1477.9
72.5°	5047.3	891.5	874.5	933.9	1198.3	1405.0	1376.2	1313.5	1386.4	1337.2
75°	2520.3	772.9	794.9	832.2	1105.0	1305.0	1274.5	1211.8	1222.0	1211.8
77.5°	1206.7	661.0	701.7	730.5	984.7	1191.5	1159.3	1094.9	1083.0	1084.7
80°	764.4	552.5	591.5	611.8	879.6	1059.3	1027.1	962.7	1098.3	1018.6
82.5°	478.0	449.1	459.3	496.6	766.1	922.0	879.6	822.0	989.8	783.0
85°	264.4	313.5	327.1	359.3	589.8	771.2	728.8	655.9	588.1	577.9
87.5°	157.6	186.4	191.5	215.2	396.6	557.6	493.2	467.8	388.1	386.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)