

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: P194005

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194005
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-07-LED-E1-T3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37696 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

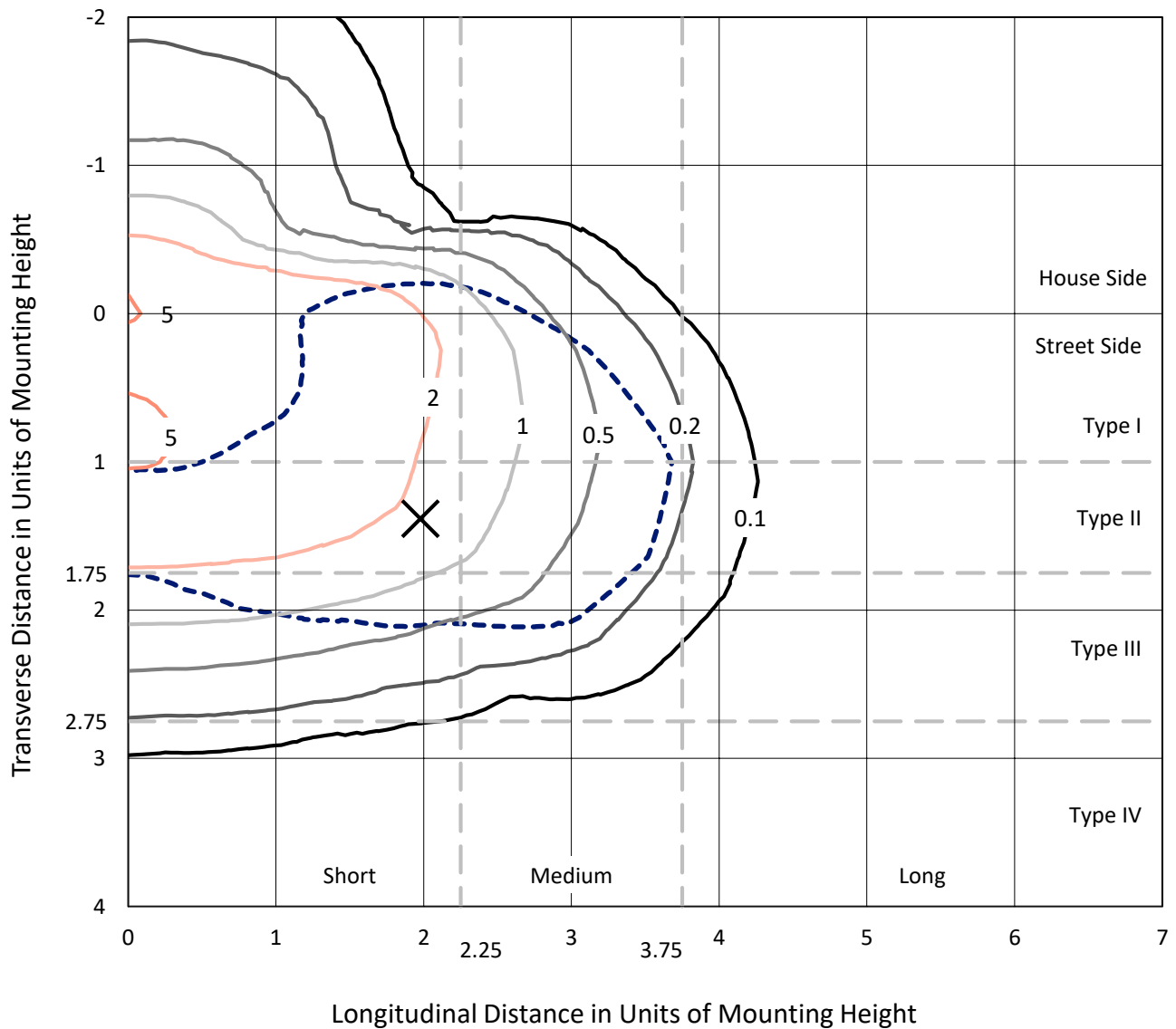
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

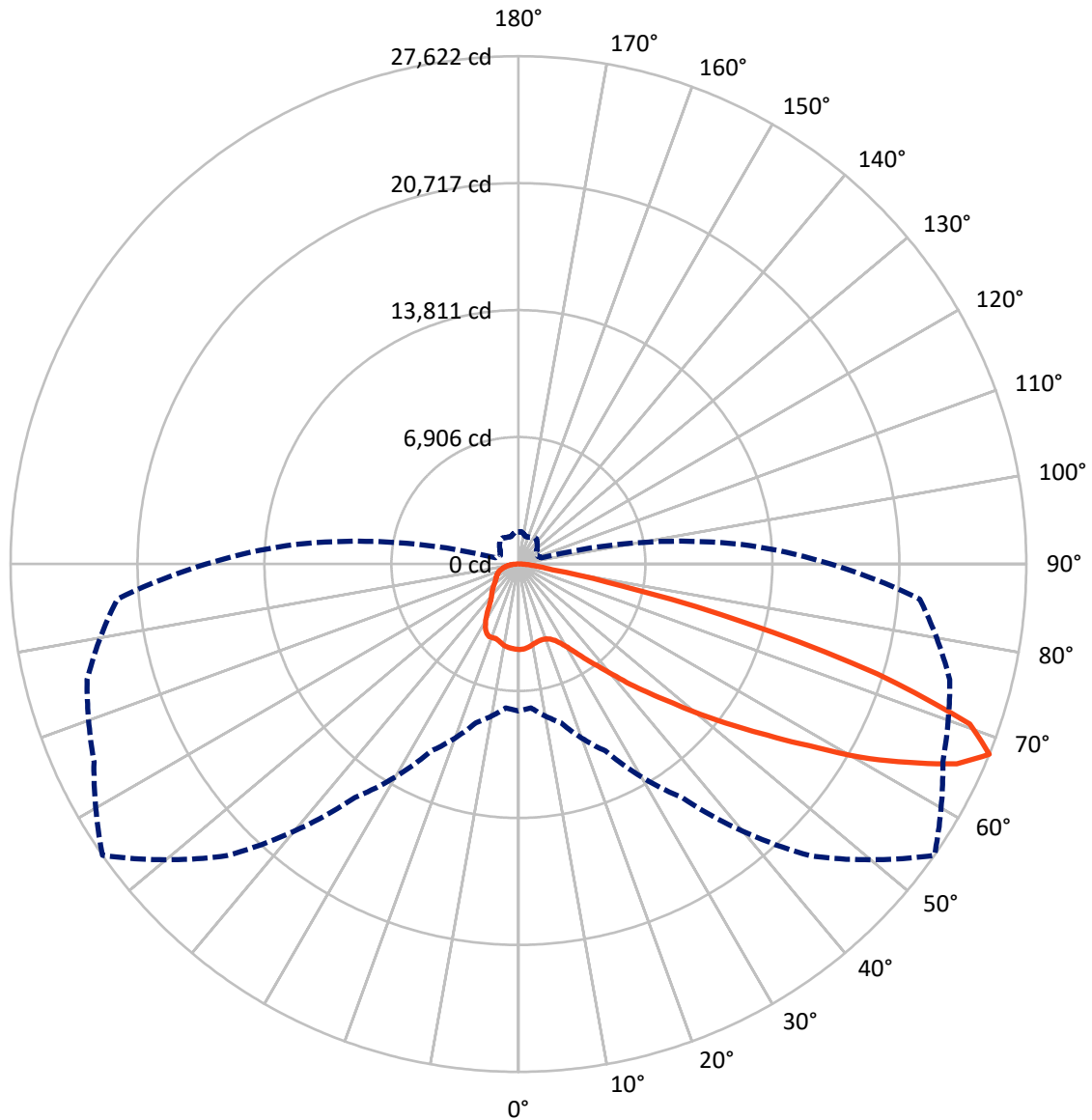
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	8143.1	0.0	8143.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29552.9	0.0	29552.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	37696.0	0.0	37696.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.9	1.2
10°-20°	1228.8	3.3
20°-30°	2058.4	5.5
30°-40°	3384.9	9.0
40°-50°	5697.8	15.1
50°-60°	8967.9	23.8
60°-70°	10702.2	28.4
70°-80°	4595.7	12.2
80°-90°	626.6	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°	37696.0	100.0
0°-180°	37696.0	100.0



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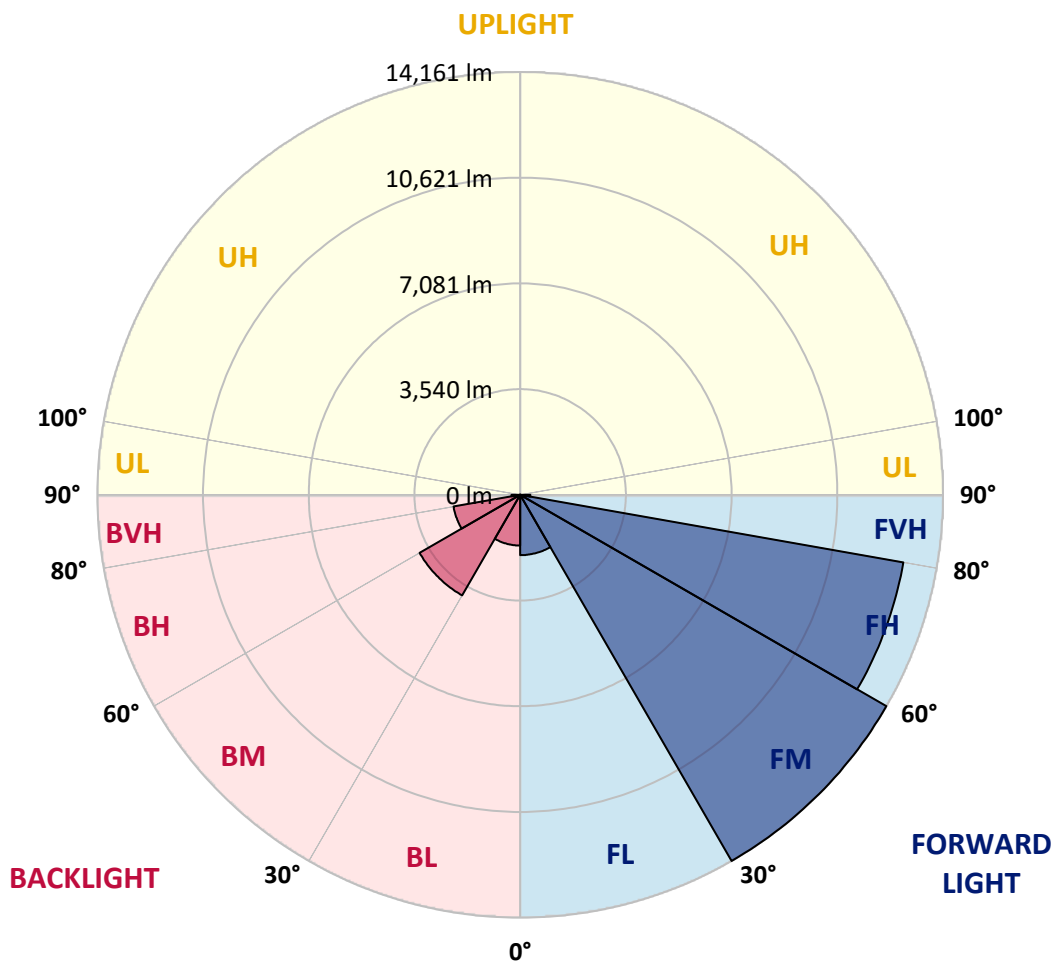
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2020.6	5.4			
FM	(30°-60°)	14161.4	37.6			
FH	(60°-80°)	13031.7	34.6			G5
FVH	(80°-90°)	339.2	0.9			G3/500
BL	(0°-30°)	1700.4	4.5	B3/2500		
BM	(30°-60°)	3889.1	10.3	B3/5000		
BH	(60°-80°)	2266.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	287.4	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°	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3
2.5°	4608.3	4610.1	4613.7	4628.3	4641.0	4637.4	4639.2	4631.9	4630.1	4619.2	4630.1
5°	4550.0	4555.5	4557.3	4581.0	4595.5	4599.2	4593.7	4584.6	4573.7	4562.8	4568.2
7.5°	4417.1	4431.7	4433.5	4466.3	4489.9	4520.9	4522.7	4524.5	4519.1	4511.8	4522.7
10°	4333.3	4337.0	4335.2	4358.8	4377.0	4411.6	4431.7	4466.3	4480.8	4484.5	4491.7
12.5°	4327.9	4324.2	4318.8	4318.8	4313.3	4327.9	4364.3	4413.5	4448.0	4459.0	4468.1
15°	4386.1	4384.3	4366.1	4338.8	4304.2	4293.3	4324.2	4378.9	4424.4	4448.0	4457.2
17.5°	4517.2	4506.3	4477.2	4415.3	4340.6	4311.5	4315.1	4360.7	4413.5	4444.4	4453.5
20°	4757.6	4757.6	4695.7	4579.1	4446.2	4377.0	4344.3	4371.6	4422.6	4464.4	4477.2
22.5°	5172.7	5176.3	5072.6	4881.4	4657.4	4510.0	4428.0	4422.6	4482.6	4530.0	4544.5
25°	5760.8	5746.2	5600.6	5327.5	4987.0	4743.0	4601.0	4568.2	4619.2	4672.0	4690.2
27.5°	6445.4	6392.6	6219.6	5890.1	5449.5	5092.6	4874.1	4821.3	4870.5	4930.5	4948.7
30°	7122.7	7068.1	6862.3	6501.8	6012.1	5560.5	5247.3	5161.8	5231.0	5316.5	5327.5
32.5°	7800.0	7800.0	7570.6	7150.0	6616.5	6119.5	5744.4	5642.4	5757.2	5860.9	5884.6
35°	8610.2	8613.9	8391.8	7885.6	7312.1	6785.9	6372.6	6297.9	6470.9	6543.7	6600.2
37.5°	9606.2	9626.2	9340.4	8728.6	8100.4	7546.9	7055.3	6953.4	7126.3	7324.8	7506.9
40°	10682.2	10707.7	10392.7	9639.0	9010.8	8431.8	7900.2	7716.3	8003.9	8382.6	8617.5
42.5°	11709.1	11840.2	11536.2	10760.5	10085.0	9486.0	8947.1	8679.4	9039.9	9611.6	9815.6
45°	13193.0	13287.7	12757.9	12055.1	11419.6	10749.6	10035.9	9753.7	10258.0	10979.0	11020.9
47.5°	14181.7	14110.7	13841.2	13404.2	13001.8	12375.5	11301.3	10991.8	11661.8	12510.2	12275.4
50°	14707.9	14729.7	14693.3	14718.8	14733.4	14340.1	12852.5	12428.3	13227.6	14252.7	13711.9
52.5°	15199.5	15053.8	15174.0	15771.2	16492.2	16346.5	14540.4	14097.9	14906.3	16186.3	15230.4
55°	15188.5	14966.4	15357.9	16412.1	17976.1	18143.6	16435.7	15925.9	16681.5	18260.1	16839.9
57.5°	14651.4	14662.4	15265.0	16645.1	19010.3	19833.2	18635.2	17870.5	18564.2	20361.2	18309.3
60°	13912.2	14012.4	14880.8	16606.9	19838.7	21218.8	21333.5	19966.1	20408.6	22271.2	19525.5
62.5°	12719.6	12825.2	14023.3	16210.0	19713.1	22553.4	23773.3	22344.0	22336.7	23429.2	19882.4
65°	10838.8	10807.9	12066.0	14726.1	18658.9	23540.2	26196.7	24399.6	23789.7	23447.4	19165.0
67.5°	7993.0	7854.6	8934.3	11215.7	15509.0	22435.1	27622.3	25470.2	24284.9	21905.2	16972.9
70°	4147.6	4009.3	4883.2	6549.2	10199.7	17510.0	26043.7	24916.7	23190.7	18362.1	13296.8
72.5°	1773.4	1749.7	2104.8	2873.1	4934.2	10099.6	20421.3	21566.6	19898.8	13681.0	9141.9
75°	1192.6	1185.3	1318.2	1565.8	2219.5	4098.5	12779.7	15308.7	14558.6	8482.8	5141.7
77.5°	935.9	926.8	1005.0	1125.2	1438.4	1616.8	5671.6	8218.8	7607.0	3692.4	2250.4
80°	731.9	724.7	773.8	839.4	1034.2	1019.6	1866.3	3270.0	2530.8	1414.7	1094.3
82.5°	577.2	577.2	617.2	619.0	733.8	695.5	974.1	1440.2	1263.6	824.8	670.0
85°	528.0	528.0	569.9	462.5	478.9	438.8	604.5	853.9	801.1	338.7	291.3
87.5°	265.8	258.5	478.9	409.7	260.4	233.1	295.0	413.3	444.3	187.5	145.7
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°	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3
2.5°	4626.5	4624.7	4628.3	4630.1	4644.7	4664.7	4673.8	4686.6	4693.8	4690.2
5°	4571.9	4575.5	4590.1	4601.0	4626.5	4659.3	4677.5	4692.0	4704.8	4699.3
7.5°	4526.3	4535.4	4557.3	4566.4	4581.0	4590.1	4588.2	4593.7	4604.6	4591.9
10°	4500.8	4511.8	4528.2	4515.4	4480.8	4431.7	4386.1	4362.5	4369.8	4360.7
12.5°	4475.4	4489.9	4477.2	4417.1	4320.6	4256.9	4222.3	4225.9	4242.3	4245.9
15°	4460.8	4466.3	4411.6	4298.7	4200.4	4191.3	4209.5	4205.9	4207.7	4207.7
17.5°	4460.8	4446.2	4344.3	4231.4	4189.5	4173.1	4116.7	4045.7	4014.7	4003.8
20°	4484.5	4446.2	4322.4	4247.8	4156.7	4016.5	3867.2	3736.1	3677.9	3661.5
22.5°	4555.5	4489.9	4384.3	4255.1	3996.5	3761.6	3524.9	3368.4	3262.8	3244.5
25°	4699.3	4626.5	4506.3	4158.6	3741.6	3406.6	3137.1	2962.3	2856.7	2842.2
27.5°	4950.6	4903.2	4571.9	3945.5	3402.9	3044.3	2794.8	2660.1	2581.8	2576.3
30°	5329.3	5305.6	4539.1	3630.5	2986.0	2692.9	2572.7	2494.4	2436.1	2434.3
32.5°	5933.8	5742.6	4431.7	3246.4	2605.5	2443.4	2394.3	2346.9	2301.4	2301.4
35°	6711.2	6095.8	4227.7	2834.9	2374.2	2305.0	2243.1	2168.5	2108.4	2104.8
37.5°	7625.2	6314.3	3861.8	2503.5	2265.0	2212.2	2121.2	2010.1	1904.5	1886.3
40°	8548.3	6379.8	3346.5	2299.6	2195.8	2119.3	2008.3	1877.2	1775.2	1769.8
42.5°	9395.0	6254.2	2800.3	2159.4	2126.6	2024.7	1908.1	1791.6	1711.5	1709.7
45°	10105.1	5928.3	2341.5	2026.5	2053.8	1939.1	1835.3	1740.6	1678.7	1666.0
47.5°	10773.3	5467.7	2019.2	1886.3	1981.0	1891.7	1804.3	1715.1	1655.0	1645.9
50°	11548.9	4970.6	1793.4	1749.7	1917.2	1875.4	1829.8	1737.0	1636.8	1625.9
52.5°	12488.4	4540.9	1616.8	1629.6	1868.1	1897.2	1895.4	1798.9	1624.1	1609.5
55°	13537.1	4063.9	1483.9	1531.2	1848.0	1937.3	1911.8	1857.1	1635.0	1613.2
57.5°	14569.5	3506.7	1391.0	1456.6	1818.9	1933.6	1833.5	1755.2	1660.5	1629.6
60°	15343.3	2758.4	1320.0	1391.0	1755.2	1873.5	1747.9	1644.1	1655.0	1631.4
62.5°	15394.3	2132.1	1234.5	1334.6	1658.7	1813.4	1691.5	1595.0	1678.7	1656.9
65°	14489.4	1611.3	1152.5	1267.2	1554.9	1775.2	1636.8	1567.7	1727.9	1704.2
67.5°	12198.9	1296.4	1083.3	1198.0	1451.1	1695.1	1587.7	1542.2	1771.6	1729.7
70°	8806.9	1105.2	1016.0	1114.3	1358.3	1604.1	1544.0	1496.6	1653.2	1587.7
72.5°	5422.1	957.7	939.5	1003.2	1287.3	1509.4	1478.4	1411.1	1489.4	1436.6
75°	2707.4	830.3	853.9	894.0	1187.1	1402.0	1369.2	1301.8	1312.7	1301.8
77.5°	1296.4	710.1	753.8	784.7	1057.8	1280.0	1245.4	1176.2	1163.4	1165.3
80°	821.2	593.6	635.4	657.3	945.0	1138.0	1103.4	1034.2	1179.8	1094.3
82.5°	513.4	482.5	493.4	533.5	823.0	990.5	945.0	883.1	1063.3	841.2
85°	284.0	336.8	351.4	386.0	633.6	828.4	782.9	704.6	631.8	620.9
87.5°	169.3	200.3	205.7	231.2	426.1	599.0	529.8	502.5	416.9	415.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)