

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: P269667

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269667
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-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37361.1 lumens
Efficiency: N/A
Efficacy: 99.9 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

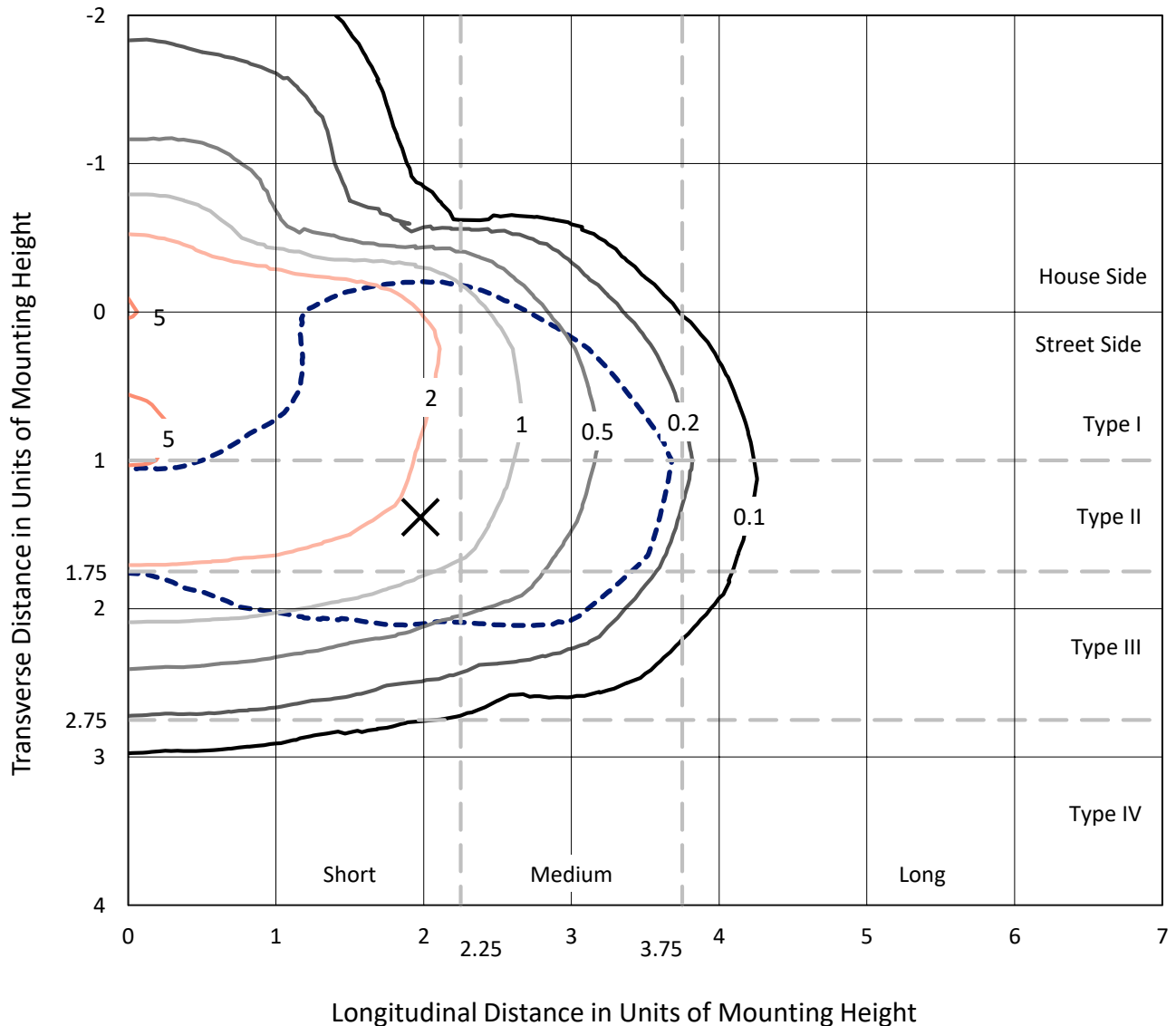


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Iso-Footcandle Lines of Horizontal Illumination

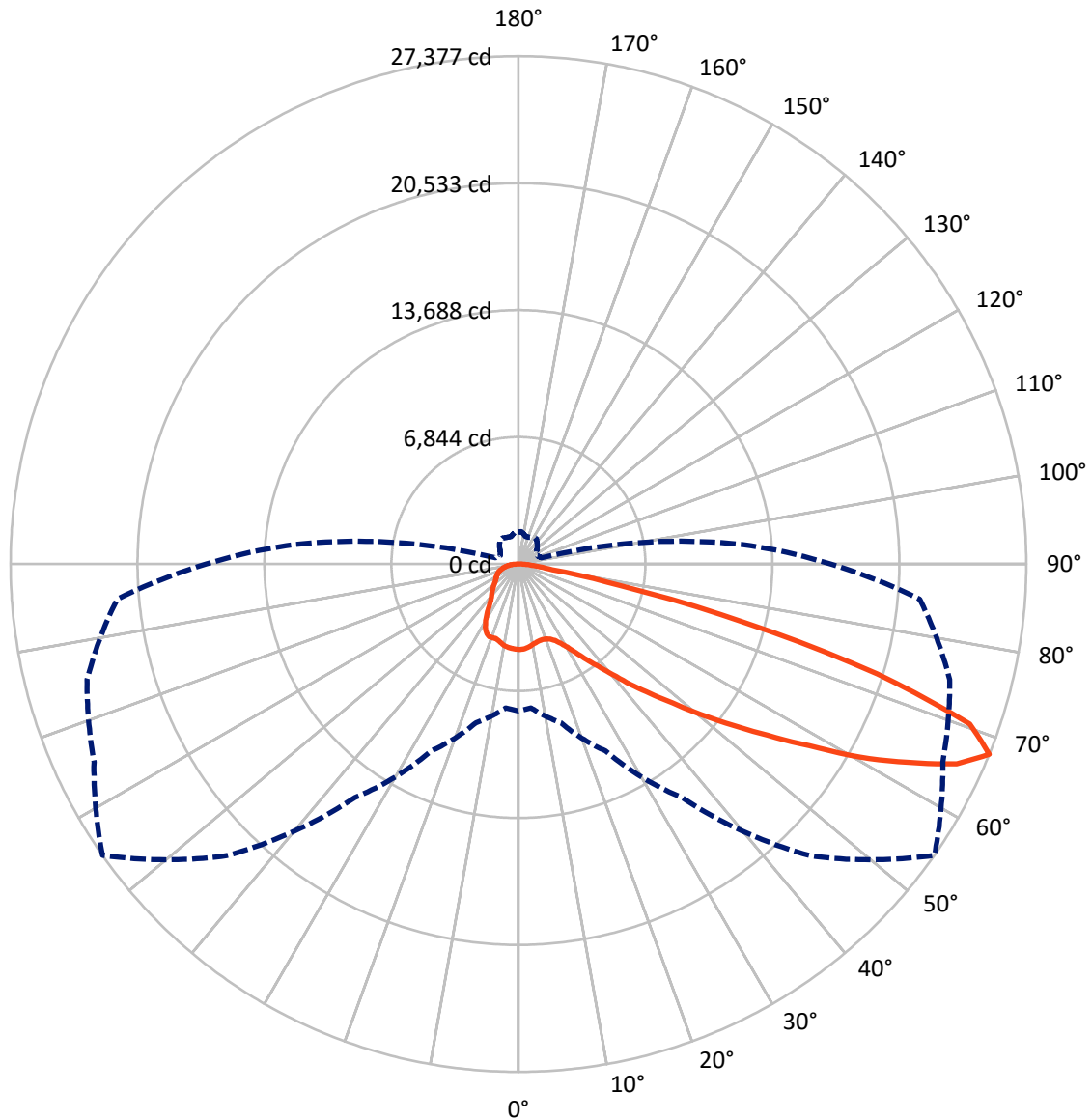
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	8070.8	0.0	8070.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29290.3	0.0	29290.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	37361.1	0.0	37361.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.0	1.2
10°-20°	1217.9	3.3
20°-30°	2040.1	5.5
30°-40°	3354.8	9.0
40°-50°	5647.1	15.1
50°-60°	8888.2	23.8
60°-70°	10607.1	28.4
70°-80°	4554.9	12.2
80°-90°	621.0	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°	37361.1	100.0
0°-180°	37361.1	100.0



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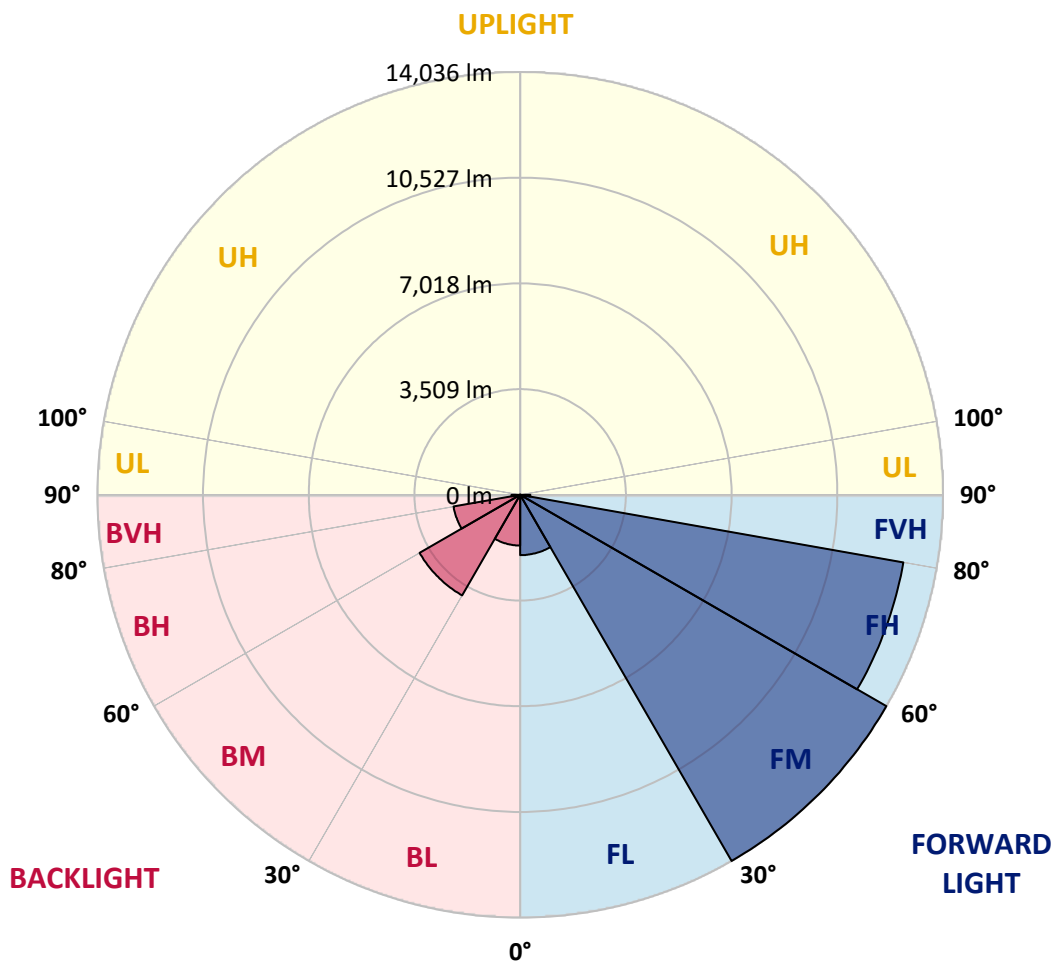
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2002.6	5.4			
FM	(30°-60°)	14035.6	37.6			
FH	(60°-80°)	12915.9	34.6			G5
FVH	(80°-90°)	336.2	0.9			G3/500
BL	(0°-30°)	1685.3	4.5	B3/2500		
BM	(30°-60°)	3854.5	10.3	B3/5000		
BH	(60°-80°)	2246.1	6.0	B3/2500		G3/2500
BVH	(80°-90°)	284.9	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°	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0
2.5°	4567.3	4569.0	4572.7	4587.1	4599.9	4596.2	4598.1	4590.8	4589.0	4578.1	4589.0
5°	4509.6	4515.1	4516.8	4540.3	4554.6	4558.3	4552.9	4543.8	4533.0	4522.2	4527.6
7.5°	4377.9	4392.4	4394.1	4426.6	4450.1	4480.7	4482.5	4484.2	4478.9	4471.8	4482.5
10°	4294.8	4298.5	4296.7	4320.0	4338.2	4372.4	4392.4	4426.6	4441.0	4444.6	4451.8
12.5°	4289.4	4285.9	4280.5	4280.5	4275.0	4289.4	4325.5	4374.2	4408.5	4419.3	4428.4
15°	4347.2	4345.5	4327.3	4300.2	4266.1	4255.1	4285.9	4339.9	4385.0	4408.5	4417.5
17.5°	4477.2	4466.3	4437.4	4376.1	4302.1	4273.1	4276.8	4321.9	4374.2	4404.8	4413.9
20°	4715.4	4715.4	4653.9	4538.4	4406.7	4338.2	4305.7	4332.7	4383.3	4424.8	4437.4
22.5°	5126.7	5130.3	5027.5	4838.0	4616.0	4469.8	4388.7	4383.3	4442.7	4489.6	4504.2
25°	5709.5	5695.2	5550.7	5280.1	4942.7	4700.9	4560.1	4527.6	4578.1	4630.6	4648.5
27.5°	6388.1	6335.7	6164.3	5837.7	5401.0	5047.3	4830.7	4778.4	4827.2	4886.7	4904.7
30°	7059.4	7005.3	6801.3	6444.1	5958.6	5511.1	5200.7	5115.8	5184.5	5269.3	5280.1
32.5°	7730.8	7730.8	7503.4	7086.5	6557.7	6065.0	5693.4	5592.3	5706.0	5808.9	5832.3
35°	8533.8	8537.3	8317.1	7815.6	7247.0	6725.6	6316.0	6242.0	6413.4	6485.6	6541.5
37.5°	9520.9	9540.7	9257.4	8651.0	8028.4	7479.8	6992.6	6891.5	7063.1	7259.7	7440.2
40°	10587.3	10612.5	10300.3	9553.4	8930.7	8356.9	7829.9	7647.7	7932.8	8308.2	8540.9
42.5°	11605.2	11735.0	11433.6	10664.9	9995.4	9401.8	8867.6	8602.3	8959.6	9526.3	9728.4
45°	13075.8	13169.6	12644.5	11947.9	11318.1	10654.1	9946.8	9667.0	10166.8	10881.4	10923.0
47.5°	14055.7	13985.4	13718.2	13285.2	12886.4	12265.5	11200.8	10894.0	11558.2	12399.0	12166.4
50°	14577.2	14598.9	14562.8	14588.0	14602.5	14212.7	12738.3	12317.9	13110.1	14126.0	13590.1
52.5°	15064.4	14920.0	15039.2	15631.0	16345.6	16201.3	14411.1	13972.6	14773.9	16042.6	15095.1
55°	15053.5	14833.4	15221.4	16266.2	17816.4	17982.5	16289.8	15784.5	16533.3	18098.0	16690.2
57.5°	14521.2	14532.2	15129.3	16497.3	18841.4	19657.0	18469.6	17711.7	18399.3	20180.3	18146.7
60°	13788.7	13887.8	14748.6	16459.4	19662.5	21030.3	21143.9	19788.8	20227.2	22073.3	19352.0
62.5°	12606.6	12711.2	13898.7	16065.9	19538.0	22353.1	23562.1	22145.5	22138.3	23220.9	19705.7
65°	10742.6	10711.7	11958.7	14595.2	18493.0	23331.0	25963.9	24182.8	23578.4	23239.1	18994.8
67.5°	7922.1	7784.8	8855.0	11116.0	15371.2	22235.7	27376.8	25243.9	24069.1	21710.5	16822.1
70°	4110.7	3973.7	4839.8	6491.1	10109.2	17354.4	25812.3	24695.3	22984.7	18198.9	13178.7
72.5°	1757.7	1734.2	2086.0	2847.5	4890.4	10009.9	20239.9	21375.0	19722.0	13559.5	9060.7
75°	1182.0	1174.8	1306.5	1551.9	2199.8	4062.0	12666.2	15172.7	14429.2	8407.4	5096.1
77.5°	927.5	918.4	996.1	1115.2	1425.6	1602.4	5621.1	8145.8	7539.5	3659.7	2230.4
80°	725.4	718.3	767.0	831.9	1025.0	1010.6	1849.7	3240.9	2508.3	1402.2	1084.6
82.5°	572.0	572.0	611.7	613.5	727.3	689.3	965.5	1427.3	1252.3	817.5	664.0
85°	523.4	523.4	564.9	458.3	474.7	434.9	599.1	846.4	794.0	335.6	288.7
87.5°	263.5	256.2	474.7	406.0	258.1	231.0	292.4	409.6	440.3	185.9	144.4
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°	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0	4607.0
2.5°	4585.4	4583.6	4587.1	4589.0	4603.5	4623.2	4632.3	4645.0	4652.1	4648.5
5°	4531.2	4534.9	4549.2	4560.1	4585.4	4617.8	4636.0	4650.3	4663.0	4657.5
7.5°	4486.1	4495.2	4516.8	4525.8	4540.3	4549.2	4547.5	4552.9	4563.7	4551.2
10°	4460.9	4471.8	4487.9	4475.3	4441.0	4392.4	4347.2	4323.7	4330.9	4321.9
12.5°	4435.7	4450.1	4437.4	4377.9	4282.2	4219.1	4184.8	4188.3	4204.5	4208.2
15°	4421.2	4426.6	4372.4	4260.5	4163.1	4154.1	4172.2	4168.6	4170.3	4170.3
17.5°	4421.2	4406.7	4305.7	4193.7	4152.2	4136.1	4080.1	4009.8	3979.0	3968.3
20°	4444.6	4406.7	4283.9	4210.0	4119.7	3980.8	3832.9	3703.0	3645.2	3629.0
22.5°	4515.1	4450.1	4345.5	4217.3	3960.9	3728.2	3493.6	3338.5	3233.8	3215.8
25°	4657.5	4585.4	4466.3	4121.7	3708.4	3376.3	3109.3	2936.0	2831.4	2816.9
27.5°	4906.6	4859.7	4531.2	3910.5	3372.6	3017.1	2770.1	2636.4	2558.8	2553.4
30°	5281.9	5258.5	4498.7	3598.3	2959.5	2669.0	2549.7	2472.2	2414.6	2412.7
32.5°	5881.1	5691.7	4392.4	3217.5	2582.3	2421.7	2373.1	2326.2	2280.9	2280.9
35°	6651.6	6041.6	4190.1	2809.7	2353.1	2284.6	2223.2	2149.3	2089.6	2086.0
37.5°	7557.5	6258.2	3827.5	2481.3	2244.9	2192.6	2102.4	1992.3	1887.6	1869.6
40°	8472.4	6323.2	3316.8	2279.2	2176.4	2100.4	1990.5	1860.5	1759.4	1754.0
42.5°	9311.6	6198.7	2775.5	2140.2	2107.8	2006.6	1891.2	1775.7	1696.3	1694.5
45°	10015.3	5875.6	2320.6	2008.5	2035.5	1921.8	1819.0	1725.1	1663.8	1651.2
47.5°	10677.6	5419.0	2001.2	1869.6	1963.3	1874.9	1788.3	1700.0	1640.3	1631.3
50°	11446.4	4926.5	1777.4	1734.2	1900.2	1858.8	1813.6	1721.5	1622.2	1611.5
52.5°	12377.4	4500.6	1602.4	1615.1	1851.4	1880.3	1878.5	1782.9	1609.7	1595.2
55°	13416.8	4027.8	1470.7	1517.6	1831.6	1920.0	1894.7	1840.6	1620.5	1598.9
57.5°	14440.1	3475.5	1378.7	1443.7	1802.8	1916.4	1817.2	1739.6	1645.8	1615.1
60°	15207.0	2733.9	1308.3	1378.7	1739.6	1856.8	1732.4	1629.5	1640.3	1616.9
62.5°	15257.5	2113.2	1223.5	1322.8	1644.0	1797.2	1676.4	1580.7	1663.8	1642.1
65°	14360.7	1597.0	1142.3	1256.0	1541.1	1759.4	1622.2	1553.7	1712.4	1689.1
67.5°	12090.5	1284.8	1073.7	1187.4	1438.2	1680.0	1573.7	1528.5	1755.8	1714.3
70°	8728.7	1095.4	1006.9	1104.3	1346.2	1589.8	1530.3	1483.3	1638.6	1573.7
72.5°	5374.0	949.1	931.2	994.3	1275.9	1495.9	1465.2	1398.5	1476.2	1423.9
75°	2683.3	822.8	846.4	886.1	1176.6	1389.5	1357.0	1290.2	1301.0	1290.2
77.5°	1284.8	703.8	747.1	777.8	1048.4	1268.5	1234.4	1165.7	1153.2	1155.0
80°	813.9	588.3	629.8	651.5	936.6	1127.8	1093.5	1025.0	1169.4	1084.6
82.5°	508.9	478.2	489.0	528.7	815.7	981.7	936.6	875.2	1053.8	833.6
85°	281.4	333.8	348.4	382.6	627.9	821.1	776.0	698.3	626.2	615.3
87.5°	167.9	198.4	203.9	229.2	422.3	593.7	525.1	498.1	413.2	411.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)