

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: P192254

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192254
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-06-LED-E1-T3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35609 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

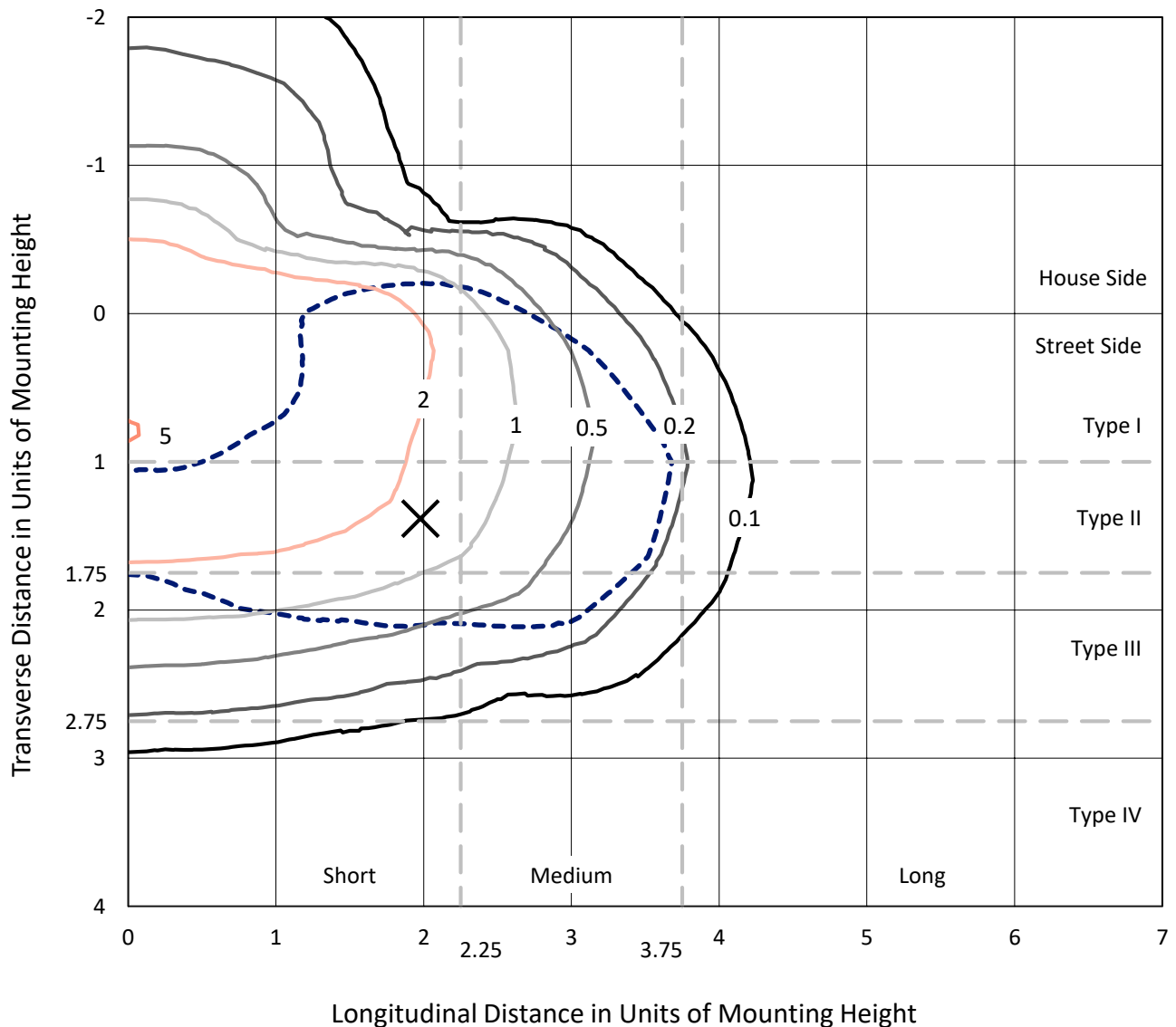


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

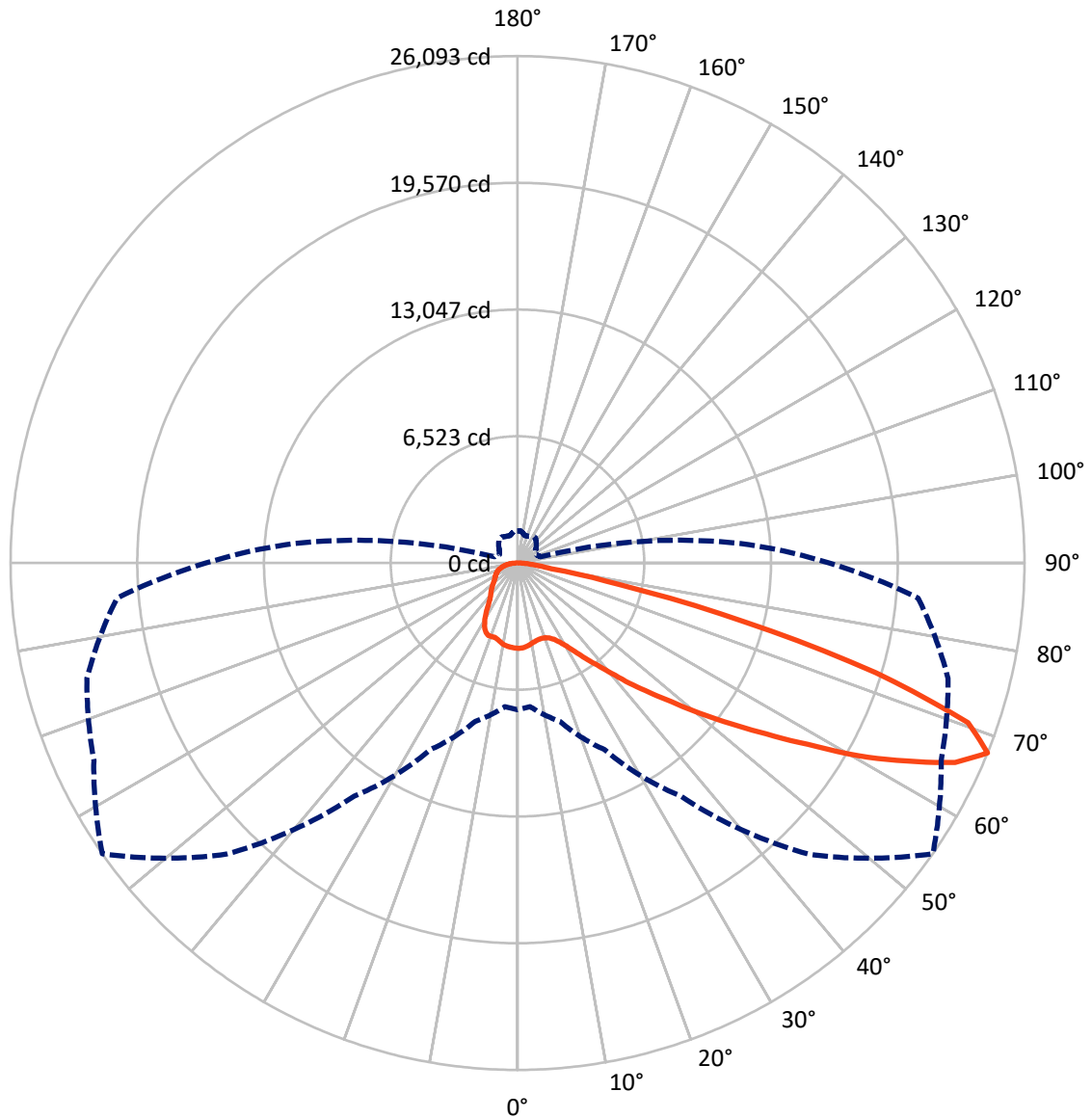


Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Full Cutoff

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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	7692.3	0.0	7692.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27916.7	0.0	27916.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	35609.0	0.0	35609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.9	1.2
10°-20°	1160.8	3.3
20°-30°	1944.4	5.5
30°-40°	3197.5	9.0
40°-50°	5382.3	15.1
50°-60°	8471.4	23.8
60°-70°	10109.7	28.4
70°-80°	4341.3	12.2
80°-90°	591.9	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°	35609.0	100.0
0°-180°	35609.0	100.0

Coefficient of Utilization



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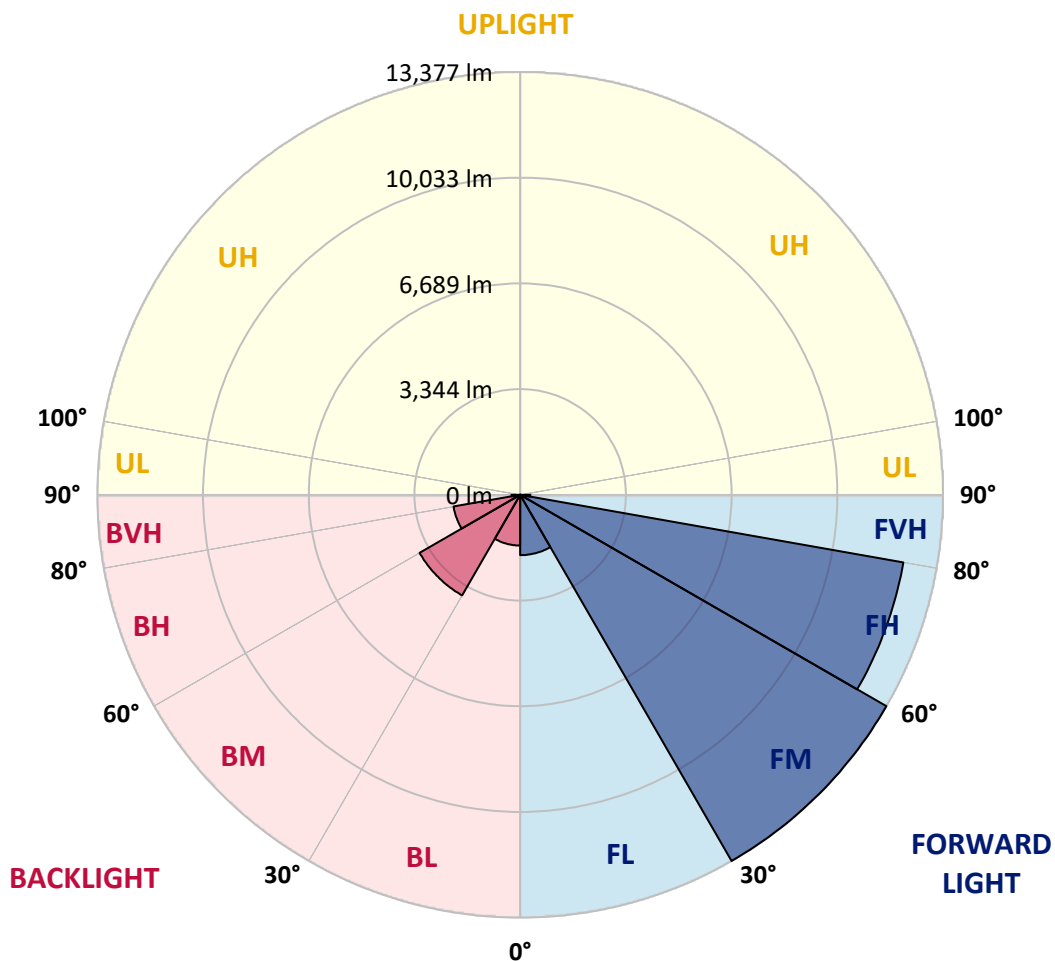
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1908.7	5.4			
FM	(30°-60°)	13377.4	37.6			
FH	(60°-80°)	12310.2	34.6			G5
FVH	(80°-90°)	320.4	0.9			G3/500
BL	(0°-30°)	1606.3	4.5	B3/2500		
BM	(30°-60°)	3673.8	10.3	B3/5000		
BH	(60°-80°)	2140.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	271.5	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°	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0
2.5°	4353.1	4354.9	4358.3	4372.1	4384.1	4380.7	4382.4	4375.5	4373.8	4363.5	4373.8
5°	4298.1	4303.3	4305.0	4327.3	4341.1	4344.5	4339.4	4330.8	4320.5	4310.1	4315.3
7.5°	4172.5	4186.3	4188.0	4219.0	4241.3	4270.6	4272.3	4274.0	4268.9	4262.0	4272.3
10°	4093.4	4096.9	4095.2	4117.5	4134.7	4167.4	4186.3	4219.0	4232.7	4236.2	4243.1
12.5°	4088.3	4084.8	4079.7	4079.7	4074.5	4088.3	4122.7	4169.1	4201.8	4212.1	4220.7
15°	4143.3	4141.6	4124.4	4098.6	4065.9	4055.6	4084.8	4136.4	4179.4	4201.8	4210.4
17.5°	4267.1	4256.8	4229.3	4170.8	4100.3	4072.8	4076.2	4119.2	4169.1	4198.3	4206.9
20°	4494.2	4494.2	4435.7	4325.6	4200.1	4134.7	4103.8	4129.5	4177.7	4217.3	4229.3
22.5°	4886.3	4889.8	4791.7	4611.1	4399.6	4260.3	4182.9	4177.7	4234.5	4279.2	4292.9
25°	5441.9	5428.1	5290.5	5032.5	4710.9	4480.4	4346.3	4315.3	4363.5	4413.3	4430.5
27.5°	6088.5	6038.7	5875.3	5564.0	5147.7	4810.6	4604.2	4554.4	4600.8	4657.6	4674.8
30°	6728.4	6676.8	6482.4	6141.9	5679.2	5252.7	4956.8	4876.0	4941.4	5022.2	5032.5
32.5°	7368.2	7368.2	7151.5	6754.2	6250.2	5780.7	5426.4	5330.1	5438.4	5536.5	5558.8
35°	8133.5	8137.0	7927.2	7449.0	6907.2	6410.2	6019.8	5949.2	6112.6	6181.4	6234.7
37.5°	9074.3	9093.3	8823.2	8245.3	7652.0	7129.1	6664.7	6568.4	6731.8	6919.3	7091.3
40°	10090.8	10114.9	9817.4	9105.3	8511.9	7965.0	7462.8	7289.1	7560.8	7918.6	8140.4
42.5°	11060.9	11184.7	10897.5	10164.8	9526.7	8960.8	8451.7	8198.9	8539.4	9079.5	9272.1
45°	12462.6	12552.0	12051.5	11387.6	10787.4	10154.5	9480.2	9213.7	9690.1	10371.2	10410.7
47.5°	13396.5	13329.4	13074.9	12662.1	12282.0	11690.4	10675.6	10383.2	11016.1	11817.6	11595.8
50°	13893.6	13914.2	13879.8	13903.9	13917.7	13546.2	12141.0	11740.2	12495.3	13463.6	12952.8
52.5°	14358.0	14220.4	14333.9	14898.0	15579.1	15441.5	13735.4	13317.4	14081.1	15290.2	14387.2
55°	14347.6	14137.8	14507.6	15503.4	16980.9	17139.1	15525.8	15044.2	15758.0	17249.2	15907.6
57.5°	13840.3	13850.6	14419.9	15723.6	17957.8	18735.2	17603.5	16881.1	17536.4	19234.0	17295.6
60°	13142.0	13236.6	14057.0	15687.5	18740.3	20044.1	20152.4	18860.7	19278.7	21038.2	18444.5
62.5°	12015.4	12115.2	13246.9	15312.5	18621.7	21304.8	22457.1	21107.0	21100.1	22132.0	18781.6
65°	10238.7	10209.5	11398.0	13910.8	17625.8	22237.0	24746.3	23048.8	22472.6	22149.2	18104.0
67.5°	7550.5	7419.8	8439.7	10594.8	14650.4	21193.0	26093.0	24060.1	22940.4	20692.5	16033.2
70°	3918.0	3787.3	4612.8	6186.6	9635.0	16540.6	24601.9	23537.2	21906.7	17345.5	12560.6
72.5°	1675.2	1652.9	1988.2	2714.0	4661.0	9540.4	19290.7	20372.6	18797.1	12923.5	8635.8
75°	1126.6	1119.7	1245.2	1479.1	2096.6	3871.6	12072.2	14461.2	13752.6	8013.1	4857.1
77.5°	884.0	875.4	949.4	1062.9	1358.7	1527.3	5357.6	7763.8	7185.9	3488.0	2125.8
80°	691.4	684.5	731.0	792.9	976.9	963.2	1762.9	3089.0	2390.7	1336.4	1033.7
82.5°	545.2	545.2	583.1	584.8	693.1	657.0	920.2	1360.5	1193.6	779.1	632.9
85°	498.8	498.8	538.3	436.9	452.3	414.5	571.0	806.6	756.8	319.9	275.2
87.5°	251.1	244.2	452.3	387.0	245.9	220.2	278.6	390.4	419.7	177.2	137.6
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°	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0	4391.0
2.5°	4370.3	4368.6	4372.1	4373.8	4387.5	4406.5	4415.1	4427.1	4434.0	4430.5
5°	4318.7	4322.2	4335.9	4346.3	4370.3	4401.3	4418.5	4432.3	4444.3	4439.1
7.5°	4275.7	4284.3	4305.0	4313.6	4327.3	4335.9	4334.2	4339.4	4349.7	4337.7
10°	4251.7	4262.0	4277.5	4265.4	4232.7	4186.3	4143.3	4120.9	4127.8	4119.2
12.5°	4227.6	4241.3	4229.3	4172.5	4081.4	4021.2	3988.5	3992.0	4007.4	4010.9
15°	4213.8	4219.0	4167.4	4060.8	3967.9	3959.3	3976.5	3973.0	3974.8	3974.8
17.5°	4213.8	4200.1	4103.8	3997.1	3957.6	3942.1	3888.8	3821.7	3792.4	3782.1
20°	4236.2	4200.1	4083.1	4012.6	3926.6	3794.2	3653.1	3529.3	3474.3	3458.8
22.5°	4303.3	4241.3	4141.6	4019.5	3775.2	3553.4	3329.8	3181.9	3082.1	3064.9
25°	4439.1	4370.3	4256.8	3928.3	3534.5	3218.0	2963.4	2798.3	2698.6	2684.8
27.5°	4676.5	4631.8	4318.7	3727.1	3214.5	2875.7	2640.1	2512.8	2438.9	2433.7
30°	5034.2	5011.9	4287.8	3429.5	2820.7	2543.8	2430.3	2356.3	2301.3	2299.5
32.5°	5605.2	5424.7	4186.3	3066.6	2461.2	2308.1	2261.7	2217.0	2174.0	2174.0
35°	6339.7	5758.3	3993.7	2677.9	2242.8	2177.4	2119.0	2048.4	1991.7	1988.2
37.5°	7203.1	5964.7	3648.0	2364.9	2139.6	2089.7	2003.7	1898.8	1799.0	1781.8
40°	8075.1	6026.6	3161.2	2172.3	2074.2	2002.0	1897.1	1773.2	1676.9	1671.8
42.5°	8874.8	5908.0	2645.3	2039.8	2008.9	1912.6	1802.5	1692.4	1616.7	1615.0
45°	9545.6	5600.1	2211.8	1914.3	1940.1	1831.7	1733.7	1644.3	1585.8	1573.7
47.5°	10176.8	5164.9	1907.4	1781.8	1871.3	1787.0	1704.4	1620.2	1563.4	1554.8
50°	10909.5	4695.4	1694.1	1652.9	1811.1	1771.5	1728.5	1640.8	1546.2	1535.9
52.5°	11797.0	4289.5	1527.3	1539.3	1764.6	1792.2	1790.4	1699.3	1534.2	1520.4
55°	12787.7	3838.9	1401.7	1446.5	1745.7	1830.0	1805.9	1754.3	1544.5	1523.9
57.5°	13762.9	3312.6	1314.0	1375.9	1718.2	1826.6	1732.0	1658.0	1568.6	1539.3
60°	14493.8	2605.7	1246.9	1314.0	1658.0	1769.8	1651.1	1553.1	1563.4	1541.1
62.5°	14542.0	2014.0	1166.1	1260.7	1566.9	1713.0	1597.8	1506.7	1585.8	1565.1
65°	13687.2	1522.1	1088.7	1197.1	1468.8	1676.9	1546.2	1480.9	1632.2	1609.9
67.5°	11523.5	1224.6	1023.4	1131.7	1370.8	1601.3	1499.8	1456.8	1673.5	1633.9
70°	8319.3	1044.0	959.7	1052.6	1283.1	1515.3	1458.5	1413.8	1561.7	1499.8
72.5°	5121.9	904.7	887.5	947.7	1216.0	1425.8	1396.6	1332.9	1406.9	1357.0
75°	2557.5	784.3	806.6	844.5	1121.4	1324.3	1293.4	1229.7	1240.1	1229.7
77.5°	1224.6	670.8	712.1	741.3	999.3	1209.1	1176.4	1111.1	1099.0	1100.8
80°	775.7	560.7	600.3	620.9	892.6	1075.0	1042.3	976.9	1114.5	1033.7
82.5°	485.0	455.8	466.1	503.9	777.4	935.6	892.6	834.2	1004.4	794.6
85°	268.3	318.2	331.9	364.6	598.5	782.6	739.6	665.6	596.8	586.5
87.5°	160.0	189.2	194.4	218.4	402.5	565.9	500.5	474.7	393.9	392.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)