

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: P269505

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269505
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-T3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36586.7 lumens
Efficiency: N/A
Efficacy: 93.6 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

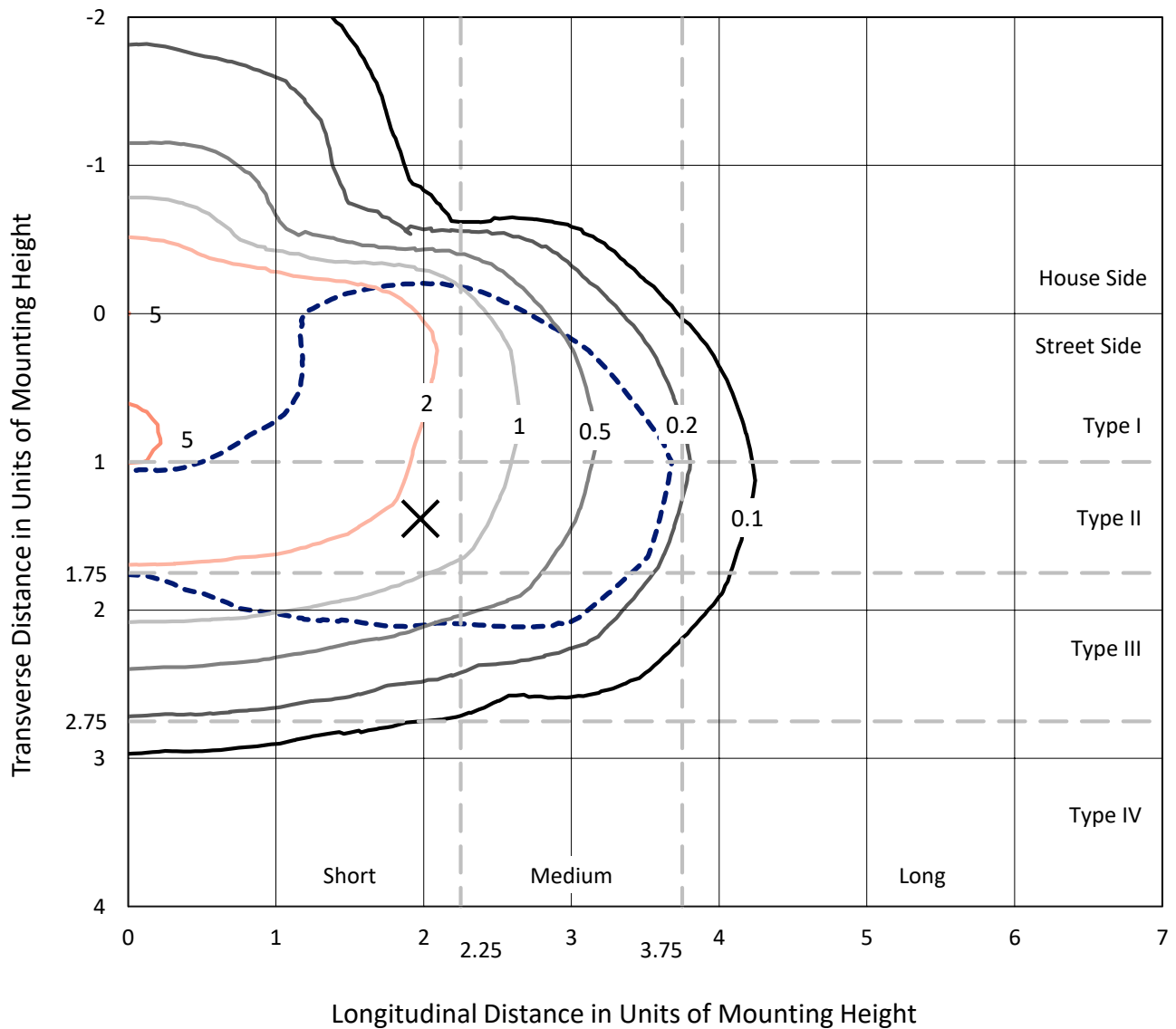
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269505
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

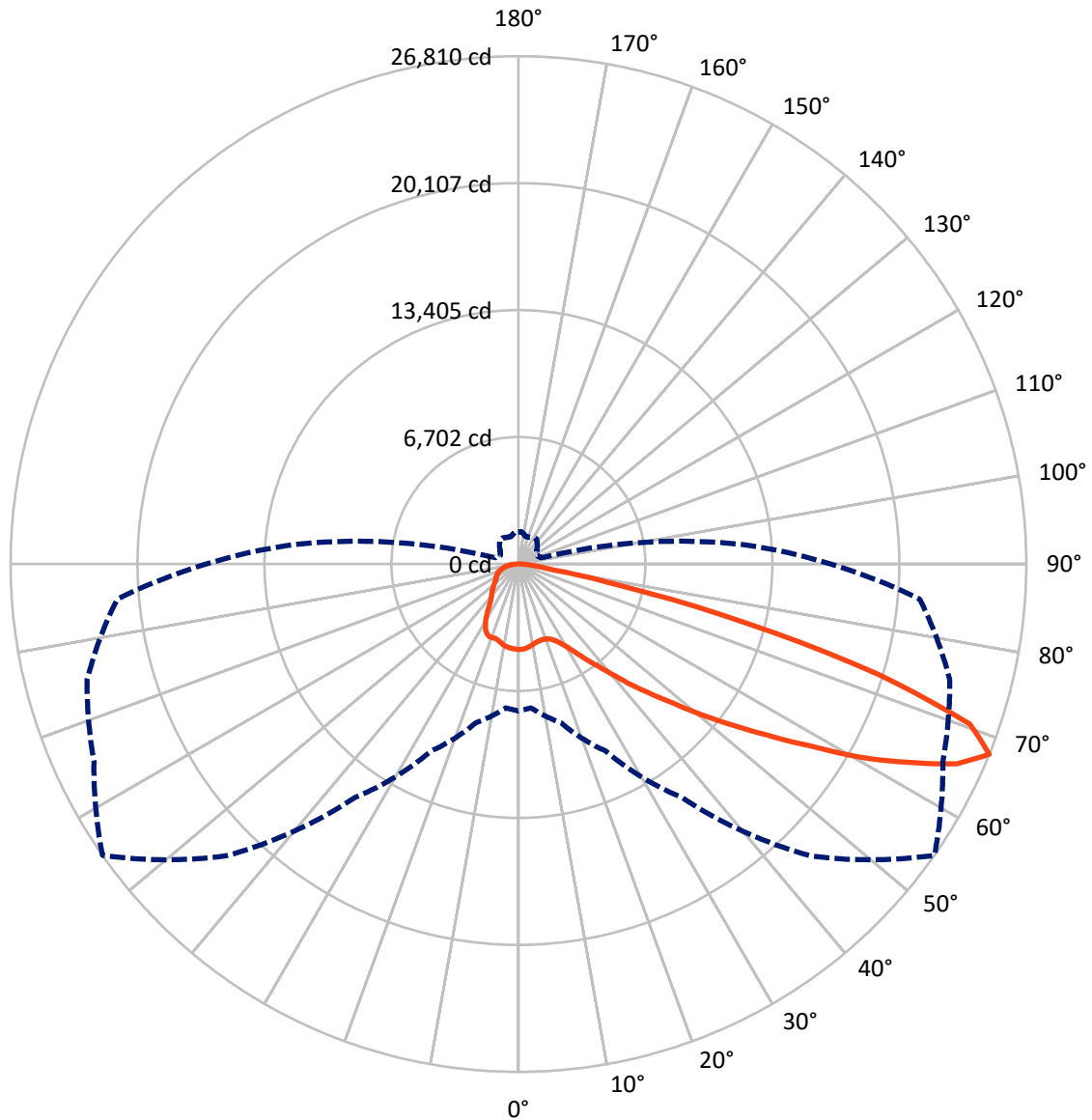


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269505

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269505

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7903.5	0.0	7903.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28683.2	0.0	28683.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	36586.7	0.0	36586.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	1.2
10°-20°	1192.6	3.3
20°-30°	1997.8	5.5
30°-40°	3285.2	9.0
40°-50°	5530.1	15.1
50°-60°	8703.9	23.8
60°-70°	10387.2	28.4
70°-80°	4460.5	12.2
80°-90°	608.2	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°	36586.7	100.0
0°-180°	36586.7	100.0



REPORT NUMBER: P269505

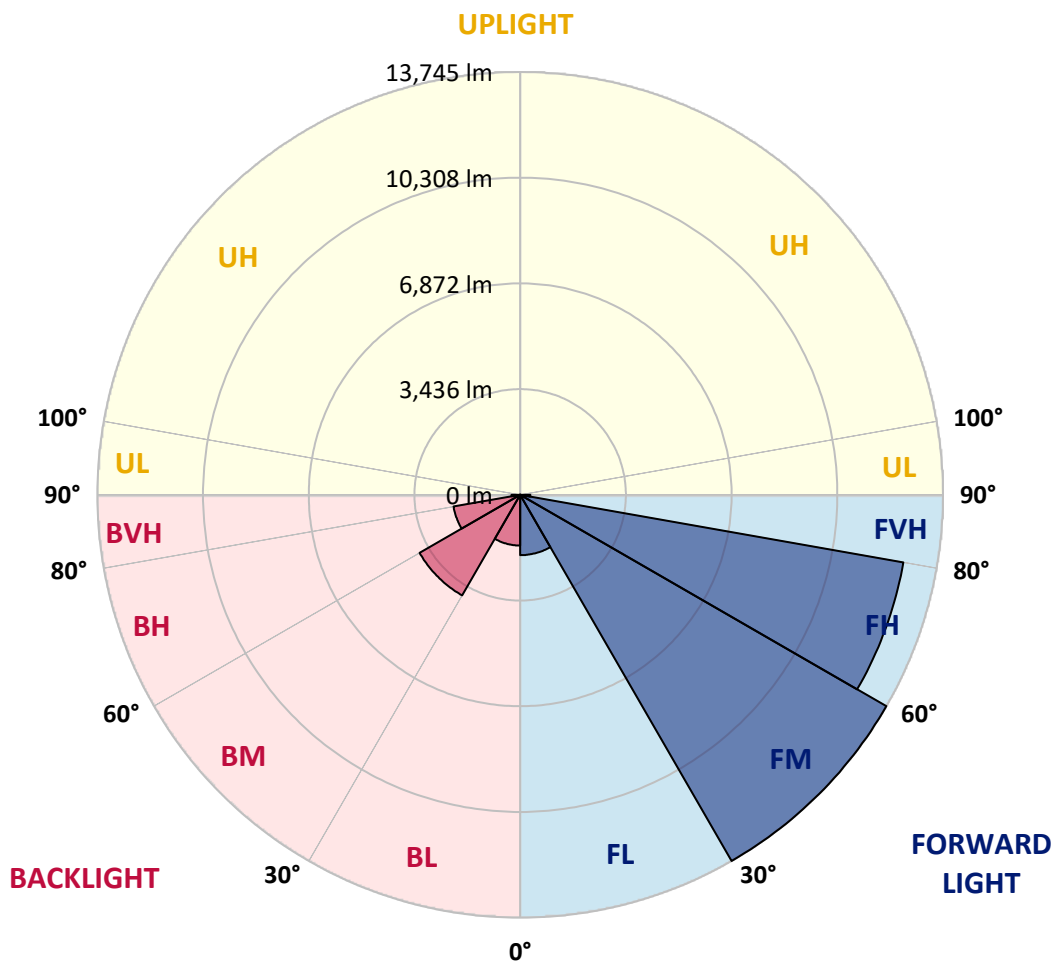
CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1961.1	5.4			
FM	(30°-60°)	13744.7	37.6			
FH	(60°-80°)	12648.2	34.6			G5
FVH	(80°-90°)	329.2	0.9			G3/500
BL	(0°-30°)	1650.4	4.5	B3/2500		
BM	(30°-60°)	3774.6	10.3	B3/5000		
BH	(60°-80°)	2199.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	279.0	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





REPORT NUMBER: P269505

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6
2.5°	4472.8	4474.5	4478.1	4492.2	4504.6	4501.0	4502.8	4495.7	4494.0	4483.4	4494.0
5°	4416.1	4421.4	4423.2	4446.2	4460.3	4463.8	4458.5	4449.7	4439.1	4428.5	4433.8
7.5°	4287.2	4301.3	4303.1	4334.9	4357.8	4387.9	4389.6	4391.4	4386.1	4379.0	4389.6
10°	4205.9	4209.4	4207.7	4230.6	4248.3	4281.9	4301.3	4334.9	4349.0	4352.5	4359.6
12.5°	4200.6	4197.1	4191.8	4191.8	4186.5	4200.6	4235.9	4283.6	4317.2	4327.8	4336.6
15°	4257.1	4255.4	4237.7	4211.2	4177.6	4167.0	4197.1	4250.1	4294.2	4317.2	4326.0
17.5°	4384.3	4373.7	4345.5	4285.4	4213.0	4184.7	4188.2	4232.4	4283.6	4313.7	4322.5
20°	4617.6	4617.6	4557.6	4444.4	4315.4	4248.3	4216.5	4243.0	4292.5	4333.1	4345.5
22.5°	5020.4	5024.0	4923.3	4737.8	4520.5	4377.3	4297.8	4292.5	4350.8	4396.7	4410.8
25°	5591.3	5577.1	5435.7	5170.6	4840.2	4603.5	4465.6	4433.8	4483.4	4534.6	4552.3
27.5°	6255.6	6204.5	6036.6	5716.8	5289.1	4942.7	4730.7	4679.5	4727.2	4785.5	4803.1
30°	6913.0	6860.0	6660.5	6310.6	5835.1	5396.8	5092.9	5009.8	5077.0	5160.0	5170.6
32.5°	7570.5	7570.5	7347.9	6939.5	6421.9	5939.5	5575.4	5476.3	5587.7	5688.4	5711.5
35°	8356.8	8360.3	8144.8	7653.5	7096.9	6586.2	6185.0	6112.5	6280.5	6351.1	6406.0
37.5°	9323.5	9342.9	9065.4	8471.7	7862.1	7324.8	6847.7	6748.7	6916.6	7109.2	7286.0
40°	10367.9	10392.6	10086.9	9355.3	8745.5	8183.6	7667.7	7489.2	7768.5	8135.9	8363.8
42.5°	11364.5	11491.7	11196.7	10443.9	9788.2	9206.9	8683.7	8424.0	8773.9	9328.8	9526.7
45°	12804.8	12896.6	12382.4	11700.3	11083.6	10433.3	9740.5	9466.6	9956.2	10656.0	10696.6
47.5°	13764.3	13695.4	13434.0	13009.8	12619.2	12011.3	10968.8	10668.4	11318.6	12142.1	11914.1
50°	14275.1	14296.3	14261.0	14285.7	14299.8	13918.1	12474.4	12062.6	12838.3	13833.3	13308.4
52.5°	14752.1	14610.8	14727.4	15307.1	16006.9	15865.4	14112.5	13683.1	14467.7	15710.0	14782.1
55°	14741.5	14526.0	14905.9	15929.1	17447.2	17609.7	15952.1	15457.2	16190.6	17722.8	16344.4
57.5°	14220.3	14230.9	14815.7	16155.3	18450.8	19249.6	18086.8	17344.6	18017.8	19762.1	17770.5
60°	13502.9	13600.0	14442.9	16118.2	19254.9	20594.5	20705.8	19378.5	19807.9	21615.7	18951.0
62.5°	12345.3	12447.9	13610.6	15732.9	19132.9	21889.7	23073.8	21686.5	21679.4	22739.8	19297.3
65°	10519.8	10489.8	11710.9	14292.8	18109.8	22847.5	25425.7	23681.6	23089.7	22757.4	18601.1
67.5°	7757.9	7623.5	8671.3	10885.7	15052.5	21774.8	26809.5	24720.6	23570.3	21260.5	16473.4
70°	4025.6	3891.3	4739.5	6356.4	9899.6	16994.8	25277.3	24183.5	22508.2	17821.7	12905.5
72.5°	1721.2	1698.2	2042.8	2788.6	4789.0	9802.3	19820.4	20931.9	19313.2	13278.3	8872.9
75°	1157.5	1150.4	1279.5	1519.8	2154.1	3977.9	12403.6	14858.2	14130.2	8233.1	4990.4
77.5°	908.4	899.6	975.5	1092.1	1396.1	1569.2	5504.6	7976.9	7383.2	3583.8	2184.1
80°	710.4	703.4	751.1	814.7	1003.8	989.7	1811.3	3173.8	2456.3	1373.1	1062.1
82.5°	560.3	560.3	599.1	600.8	712.1	675.0	945.5	1397.9	1226.4	800.5	650.4
85°	512.5	512.5	553.1	448.9	464.8	425.8	586.8	828.7	777.6	328.7	282.7
87.5°	258.1	250.9	464.8	397.6	252.8	226.3	286.3	401.2	431.1	182.0	141.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269505

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-7027

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6	4511.6
2.5°	4490.4	4488.7	4492.2	4494.0	4508.1	4527.5	4536.4	4548.7	4555.8	4552.3
5°	4437.3	4440.9	4455.0	4465.6	4490.4	4522.2	4539.9	4554.0	4566.4	4561.1
7.5°	4393.2	4402.0	4423.2	4432.0	4446.2	4455.0	4453.2	4458.5	4469.1	4456.8
10°	4368.4	4379.0	4394.9	4382.6	4349.0	4301.3	4257.1	4234.2	4241.2	4232.4
12.5°	4343.7	4357.8	4345.5	4287.2	4193.5	4131.7	4098.0	4101.5	4117.6	4121.1
15°	4329.6	4334.9	4281.9	4172.3	4076.8	4068.0	4085.6	4082.1	4083.9	4083.9
17.5°	4329.6	4315.4	4216.5	4106.8	4066.2	4050.3	3995.5	3926.6	3896.6	3886.0
20°	4352.5	4315.4	4195.3	4122.9	4034.4	3898.4	3753.4	3626.2	3569.7	3553.8
22.5°	4421.4	4357.8	4255.4	4129.9	3878.9	3650.9	3421.3	3269.2	3166.7	3149.1
25°	4561.1	4490.4	4373.7	4036.2	3631.5	3306.3	3044.9	2875.1	2772.7	2758.5
27.5°	4804.9	4759.0	4437.3	3829.5	3302.8	2954.6	2712.6	2581.8	2505.8	2500.5
30°	5172.4	5149.4	4405.5	3523.7	2898.1	2613.6	2497.0	2421.0	2364.5	2362.7
32.5°	5759.2	5573.7	4301.3	3150.9	2528.8	2371.5	2323.7	2277.8	2233.6	2233.6
35°	6513.7	5916.4	4103.3	2751.5	2304.3	2237.1	2177.1	2104.6	2046.3	2042.8
37.5°	7400.9	6128.4	3748.1	2429.8	2198.3	2147.0	2058.7	1950.8	1848.4	1830.7
40°	8296.7	6192.0	3248.0	2231.8	2131.1	2056.9	1949.1	1821.9	1722.9	1717.6
42.5°	9118.4	6070.1	2717.9	2095.8	2064.0	1965.0	1851.9	1738.8	1661.1	1659.3
45°	9807.6	5753.9	2272.5	1966.7	1993.3	1881.9	1781.2	1689.4	1629.3	1616.9
47.5°	10456.2	5306.7	1959.7	1830.7	1922.6	1836.0	1751.2	1664.6	1606.3	1597.5
50°	11209.1	4824.3	1740.6	1698.2	1860.7	1820.1	1775.9	1685.8	1588.7	1578.1
52.5°	12120.9	4407.3	1569.2	1581.6	1813.0	1841.3	1839.5	1745.9	1576.3	1562.2
55°	13138.8	3944.3	1440.3	1486.2	1793.6	1880.2	1855.4	1802.4	1586.9	1565.7
57.5°	14140.8	3403.6	1350.2	1413.8	1765.3	1876.6	1779.5	1703.5	1611.6	1581.6
60°	14891.8	2677.2	1281.3	1350.2	1703.5	1818.3	1696.4	1595.7	1606.3	1583.4
62.5°	14941.2	2069.3	1198.1	1295.4	1609.9	1760.0	1641.7	1548.0	1629.3	1608.1
65°	14063.0	1563.9	1118.6	1229.9	1509.2	1722.9	1588.7	1521.5	1677.0	1654.0
67.5°	11839.9	1258.3	1051.5	1162.8	1408.5	1645.2	1541.0	1496.8	1719.4	1678.8
70°	8547.7	1072.7	986.1	1081.5	1318.4	1556.9	1498.6	1452.6	1604.6	1541.0
72.5°	5262.6	929.6	911.9	973.8	1249.4	1465.0	1435.0	1369.6	1445.6	1394.3
75°	2627.7	805.8	828.7	867.7	1152.2	1360.8	1329.0	1263.6	1274.2	1263.6
77.5°	1258.3	689.2	731.6	761.7	1026.8	1242.3	1208.7	1141.6	1129.2	1131.0
80°	796.9	576.2	616.7	637.9	917.2	1104.5	1070.9	1003.8	1145.1	1062.1
82.5°	498.3	468.2	478.8	517.8	798.8	961.4	917.2	857.1	1032.1	816.4
85°	275.7	327.0	341.0	374.7	615.0	804.1	759.8	683.9	613.3	602.7
87.5°	164.3	194.5	199.8	224.4	413.5	581.5	514.2	487.7	404.6	402.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)