

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: P192276

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T3R-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32137 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

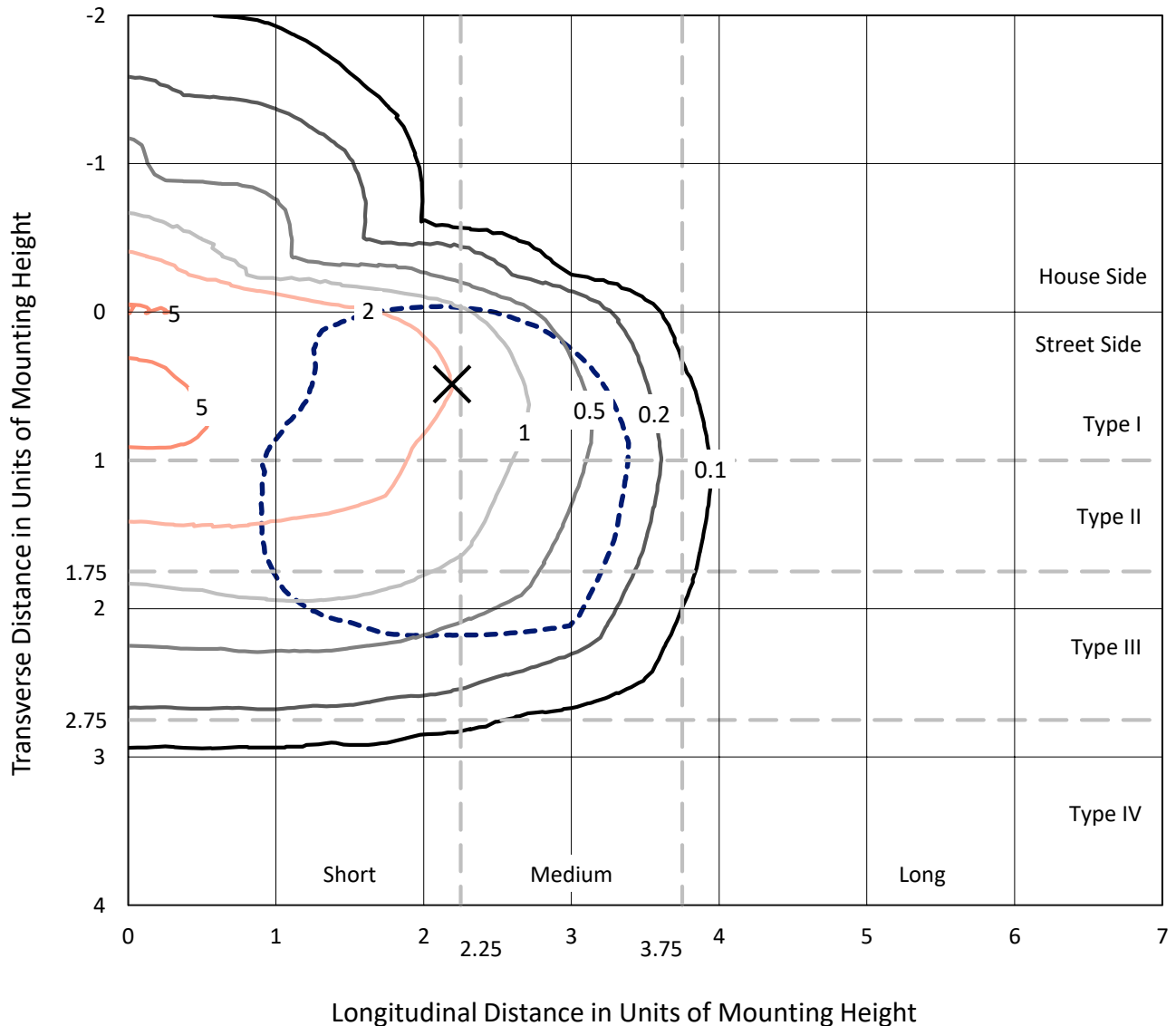


REPORT NUMBER: P192276

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3R-7050-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

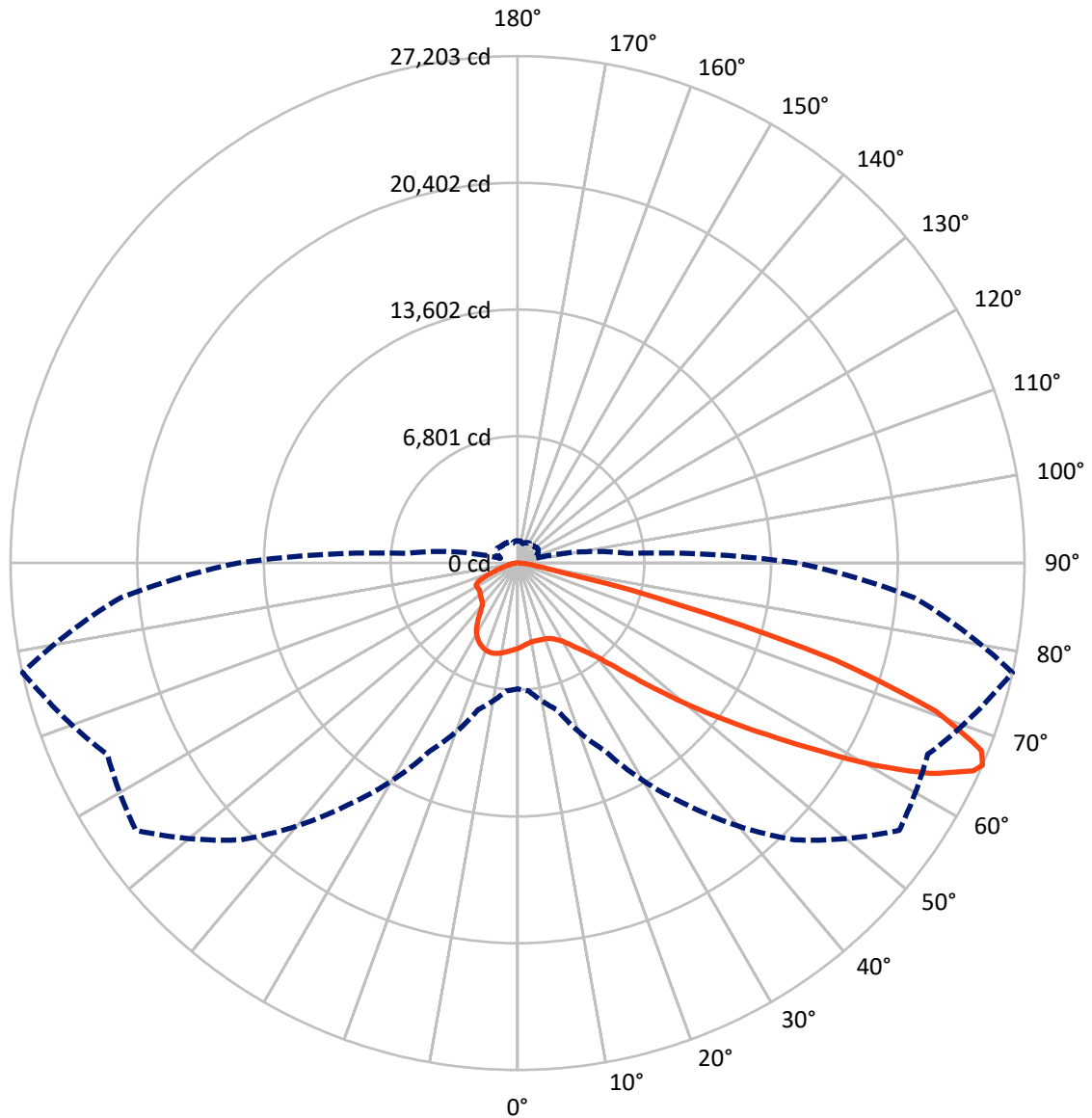


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P192276

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3R-7050-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P192276

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3R-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5490.4	0.0	5490.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	26646.6	0.0	26646.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	32137.0	0.0	32137.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.2	1.3
10°-20°	1154.3	3.6
20°-30°	1970.0	6.1
30°-40°	3153.6	9.8
40°-50°	4872.0	15.2
50°-60°	6910.2	21.5
60°-70°	9244.0	28.8
70°-80°	4014.5	12.5
80°-90°	409.3	1.3
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°	32137.0	100.0
0°-180°	32137.0	100.0



REPORT NUMBER: P192276

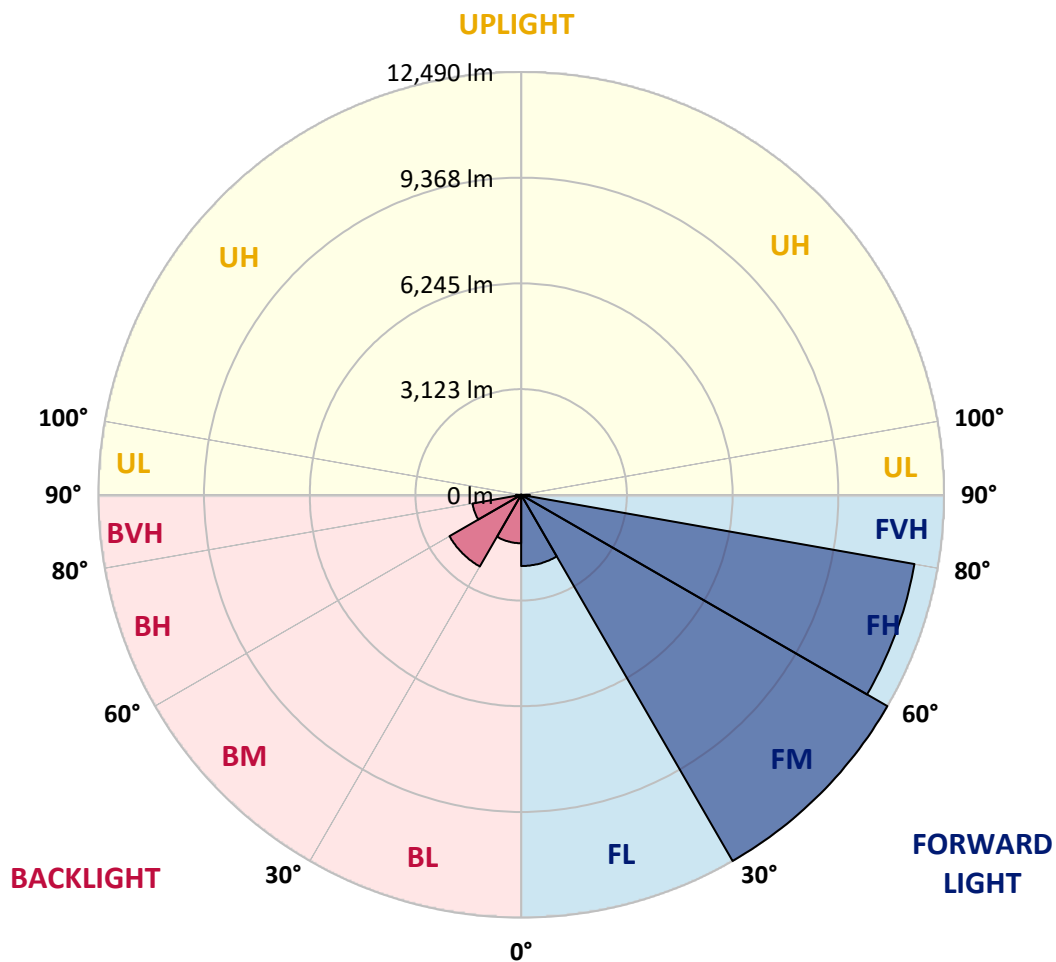
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2103.5	6.5			
FM	(30°-60°)	12490.1	38.9			
FH	(60°-80°)	11796.2	36.7			G4/12000
FVH	(80°-90°)	256.7	0.8			G3/500
BL	(0°-30°)	1429.9	4.4	B3/2500		
BM	(30°-60°)	2445.7	7.6	B2/2500		
BH	(60°-80°)	1462.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	152.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P192276

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3R-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7
2.5°	4051.3	4078.6	4101.4	4122.6	4165.1	4235.0	4315.5	4380.8	4474.9	4493.1	4543.2
5°	3679.2	3679.2	3697.5	3729.3	3787.0	3891.8	4001.1	4146.9	4351.9	4400.5	4534.1
7.5°	3498.5	3500.1	3510.7	3538.0	3588.1	3683.8	3803.7	3975.3	4253.2	4333.7	4561.5
10°	3565.3	3550.2	3527.4	3513.7	3521.3	3577.5	3691.4	3882.7	4192.5	4295.7	4622.2
12.5°	3938.9	3910.0	3831.1	3726.3	3626.1	3585.1	3651.9	3838.7	4166.7	4286.6	4702.7
15°	4549.3	4537.2	4389.9	4172.7	3929.8	3726.3	3680.7	3822.0	4169.7	4297.2	4798.3
17.5°	5314.6	5297.9	5103.5	4787.7	4391.4	3995.1	3782.5	3835.6	4180.3	4315.5	4891.0
20°	6087.5	6035.9	5826.3	5449.8	4941.1	4361.0	3951.0	3870.6	4194.0	4335.2	4988.1
22.5°	6664.5	6622.0	6433.7	6067.8	5481.6	4784.7	4177.3	3931.3	4238.0	4392.9	5108.1
25°	7171.7	7174.7	6988.0	6634.2	6028.3	5234.1	4468.8	4093.8	4350.4	4511.3	5272.1
27.5°	7798.8	7762.4	7587.7	7237.0	6568.9	5688.2	4821.1	4317.0	4517.4	4679.9	5487.7
30°	8548.9	8523.1	8321.2	7923.3	7168.6	6175.6	5223.5	4576.6	4733.0	4901.6	5770.1
32.5°	9431.2	9419.0	9209.5	8697.7	7861.1	6749.6	5695.7	4919.8	5055.0	5229.6	6175.6
35°	10466.7	10468.3	10220.8	9605.8	8618.8	7417.7	6231.8	5361.7	5446.7	5628.9	6658.4
37.5°	11104.5	11181.9	11089.3	10462.2	9476.7	8164.8	6927.2	5947.8	5893.1	6076.9	7176.2
40°	11241.2	11335.3	11628.4	11309.5	10436.4	8987.8	7543.7	6511.2	6442.8	6667.6	7842.8
42.5°	11049.8	11180.4	11800.0	12024.7	11455.3	10002.1	8372.8	7347.8	7261.3	7563.4	8671.9
45°	10935.9	11033.1	11749.8	12396.7	12339.0	11148.5	9428.1	8398.6	8366.7	8763.0	9628.6
47.5°	10738.5	10826.6	11516.0	12483.3	12858.3	12199.3	10696.0	9683.2	9745.5	10264.8	10708.2
50°	10844.8	10881.3	11254.8	12263.1	13008.6	12969.2	12112.8	11171.3	11383.9	12032.3	11930.5
52.5°	10829.7	10923.8	11224.5	11901.7	13028.4	13444.4	13508.2	12831.0	13278.9	14023.0	13286.5
55°	8755.4	8928.5	10867.6	11810.6	13098.2	13910.6	14750.3	14580.3	15415.4	16282.4	14817.1
57.5°	8360.6	8470.0	9545.0	12001.9	13468.7	14800.4	16132.1	16505.7	17902.6	18909.4	16681.8
60°	8283.2	8418.3	9531.4	12235.8	14220.4	16250.6	18180.5	18836.5	20928.9	22031.3	18844.1
62.5°	8041.8	8187.5	9441.8	12205.4	15287.9	18256.4	20802.9	21314.6	23798.8	24870.9	20652.6
65°	7276.5	7413.1	8711.4	11714.9	16007.6	20397.5	23906.6	23586.2	26064.4	26870.7	21554.5
66°	6752.6	6886.2	8135.9	11137.9	15840.6	21004.9	25006.0	24289.3	26571.5	27203.2	21378.4
67.5°	5794.4	5899.2	7018.3	9845.7	14952.3	21174.9	25930.7	24817.7	26624.7	26847.9	20371.7
70°	3661.0	3691.4	4561.5	6796.6	11318.6	18364.3	24523.1	23505.8	24429.0	23824.6	17078.1
72.5°	1588.3	1577.7	2189.6	3457.5	6407.9	12322.3	19837.2	19395.3	19163.0	17784.2	11954.8
75°	883.7	895.9	1137.3	1605.0	2604.2	6052.6	12976.8	12418.0	10485.0	8946.8	5420.9
77.5°	709.1	725.8	943.0	1138.8	1169.2	2110.7	6072.3	4941.1	2974.7	2387.0	1506.3
80°	560.3	590.7	823.0	886.8	788.1	870.1	1961.9	1568.6	1176.8	1079.6	780.5
82.5°	443.4	464.6	706.1	671.2	551.2	586.1	939.9	915.6	765.3	697.0	451.0
85°	318.9	358.4	580.1	505.6	361.4	394.8	624.1	598.3	438.8	358.4	198.9
87.5°	130.6	170.1	410.0	335.6	202.0	183.7	311.3	293.1	208.0	151.8	98.7
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: P192276

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7	4579.7
2.5°	4575.1	4611.6	4658.6	4687.5	4702.7	4713.3	4730.0	4728.5	4733.0	4734.6	4740.6
5°	4605.5	4666.2	4734.6	4752.8	4752.8	4736.1	4719.4	4692.0	4681.4	4678.4	4681.4
7.5°	4684.4	4751.3	4810.5	4789.2	4743.7	4676.9	4590.3	4514.4	4473.4	4459.7	4456.7
10°	4784.7	4865.1	4889.4	4809.0	4675.3	4514.4	4342.8	4218.3	4146.9	4127.2	4121.1
12.5°	4906.1	4982.1	4948.7	4778.6	4531.1	4271.4	4034.5	3835.6	3686.8	3639.7	3636.7
15°	5039.8	5099.0	4982.1	4684.4	4315.5	3932.8	3510.7	3167.5	2982.3	2923.0	2918.5
17.5°	5164.3	5194.7	4962.3	4520.5	3998.1	3378.6	2818.3	2554.0	2490.3	2505.5	2508.5
20°	5270.6	5270.6	4895.5	4285.1	3498.5	2648.2	2294.4	2289.8	2335.4	2380.9	2390.1
22.5°	5387.5	5317.6	4778.6	3952.6	2790.9	2166.8	2115.2	2157.7	2209.4	2259.5	2267.1
25°	5531.7	5355.6	4616.1	3448.4	2194.2	1967.9	1987.7	2022.6	2048.4	2080.3	2084.8
27.5°	5692.7	5404.2	4402.0	2754.5	1904.1	1843.4	1858.6	1870.7	1867.7	1879.9	1882.9
30°	5885.6	5460.4	4109.0	2153.2	1784.2	1737.1	1709.8	1699.2	1699.2	1718.9	1726.5
32.5°	6143.7	5543.9	3688.3	1844.9	1726.5	1661.2	1573.1	1533.6	1548.8	1615.6	1630.8
35°	6427.6	5633.5	3118.9	1740.2	1714.3	1626.3	1489.6	1416.7	1418.2	1480.5	1500.2
37.5°	6737.4	5747.4	2494.8	1720.4	1741.7	1627.8	1445.6	1345.4	1304.4	1304.4	1311.9
40°	7133.7	5864.3	2019.6	1734.1	1799.4	1646.0	1422.8	1289.2	1173.8	1176.8	1182.9
42.5°	7650.0	5964.5	1764.5	1762.9	1869.2	1670.3	1421.3	1214.8	1114.5	1182.9	1245.1
45°	8224.0	6014.6	1652.1	1788.7	1925.4	1685.5	1397.0	1202.6	1122.1	1325.6	1444.1
47.5°	8884.5	5985.8	1589.8	1797.9	1939.1	1685.5	1369.7	1231.5	1175.3	1535.2	1673.3
50°	9608.8	5902.3	1529.1	1779.6	1934.5	1682.5	1395.5	1260.3	1195.0	1571.6	1667.3
52.5°	10460.7	5832.4	1465.3	1740.2	1902.6	1665.8	1425.8	1248.2	1132.8	1428.9	1495.7
55°	11432.5	5852.1	1393.9	1684.0	1852.5	1633.9	1415.2	1199.6	1067.5	1258.8	1299.8
57.5°	12674.6	6087.5	1308.9	1612.6	1784.2	1580.7	1377.2	1176.8	1047.7	1141.9	1166.2
60°	14060.9	6497.5	1202.6	1541.2	1699.2	1495.7	1348.4	1187.4	1056.8	1132.8	1144.9
62.5°	15078.3	6735.9	1111.5	1436.5	1583.8	1401.5	1311.9	1201.1	1081.1	1164.7	1161.6
65°	15354.7	6344.1	997.6	1283.1	1427.4	1302.8	1266.4	1216.3	1091.8	1190.5	1176.8
66°	14967.5	5922.0	947.5	1211.7	1348.4	1254.2	1243.6	1214.8	1087.2	1193.5	1170.7
67.5°	14027.5	5056.5	861.0	1107.0	1222.4	1181.4	1207.2	1201.1	1075.1	1190.5	1158.6
70°	11440.1	3449.9	736.5	921.7	1017.4	1040.1	1137.3	1152.5	1035.6	1137.3	1067.5
72.5°	7993.2	2101.5	651.4	715.2	823.0	886.8	1041.7	1085.7	982.4	993.1	926.3
75°	3863.0	1116.1	590.7	554.2	639.3	741.0	926.3	994.6	898.9	830.6	806.3
77.5°	1204.1	681.8	501.1	446.4	501.1	598.3	774.4	871.6	800.2	695.5	686.3
80°	646.9	501.1	385.7	358.4	396.3	469.2	608.9	727.3	687.9	624.1	557.3
82.5°	426.7	325.0	285.5	277.9	302.2	358.4	452.5	602.8	602.8	534.5	388.7
85°	220.2	198.9	195.9	195.9	211.1	238.4	308.2	464.6	495.0	282.4	233.8
87.5°	109.3	113.9	106.3	110.8	118.4	116.9	147.3	233.8	279.4	171.6	142.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)