

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: P194043

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194043
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-05-LED-E1-T3R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27228 lumens
Efficiency: N/A
Efficacy: 85.1 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 - G4

Input Watts (W): 320
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

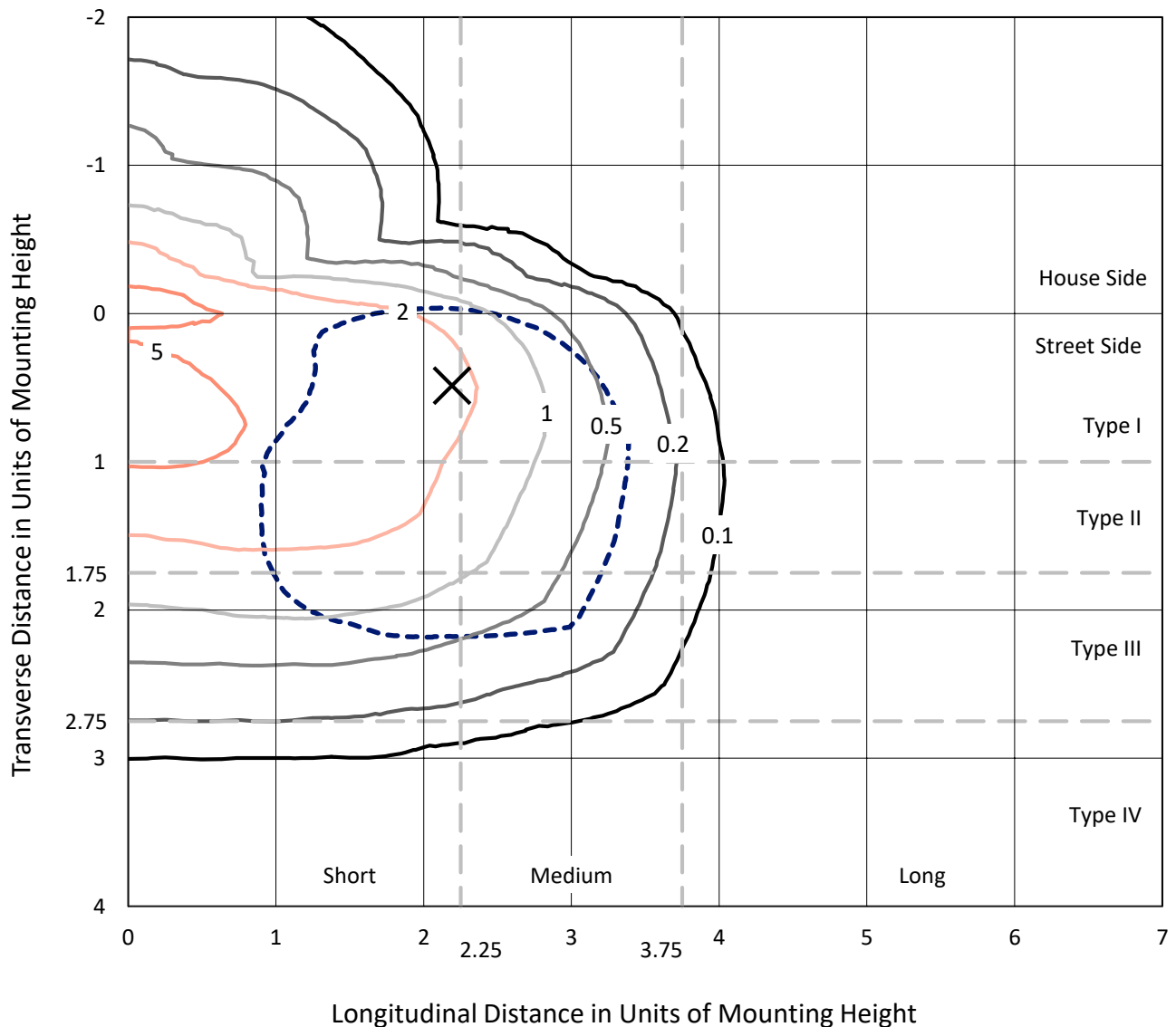


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

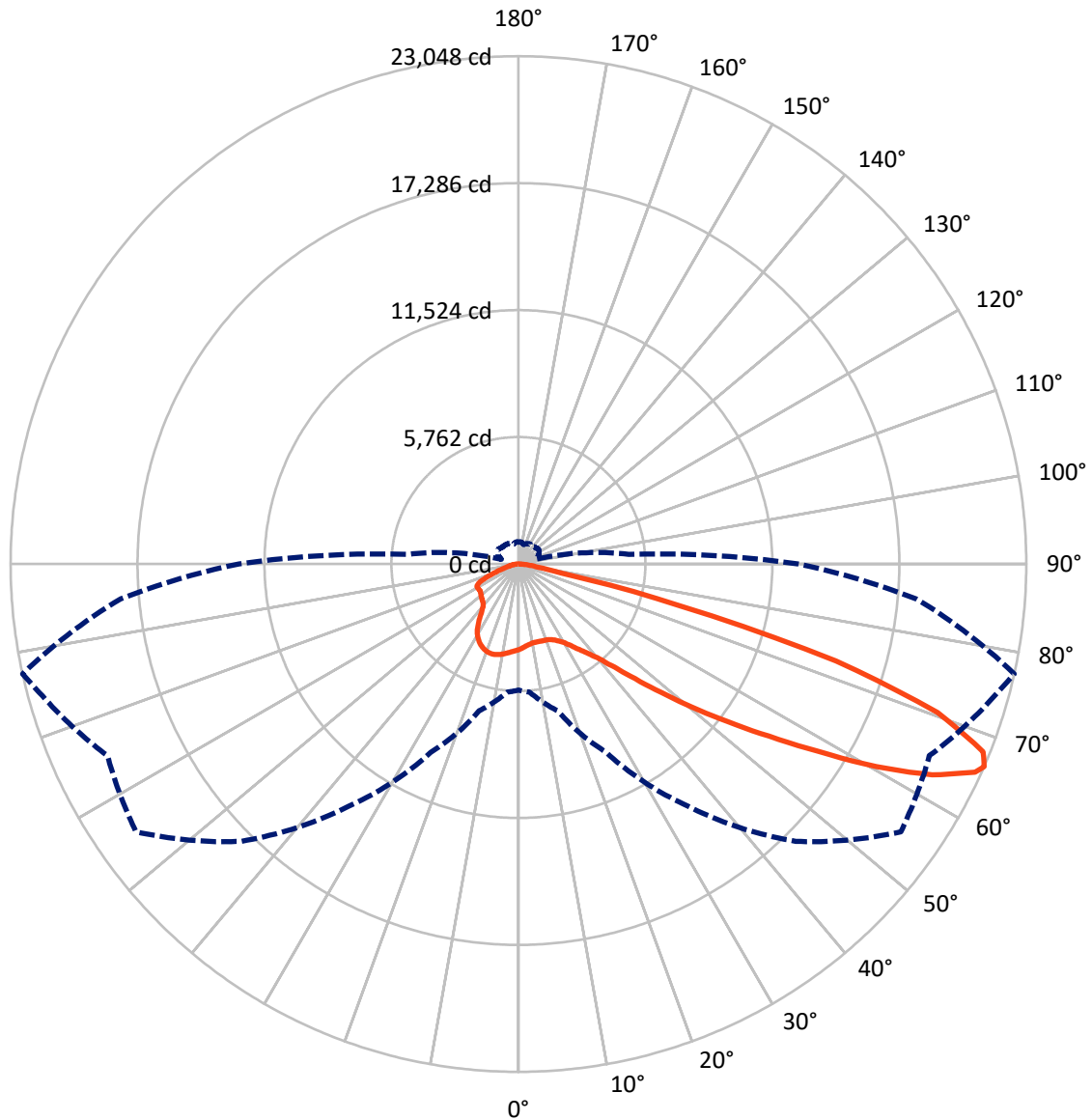


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4651.7	0.0	4651.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22576.3	0.0	22576.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	27228.0	0.0	27228.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	1.3
10°-20°	978.0	3.6
20°-30°	1669.1	6.1
30°-40°	2671.9	9.8
40°-50°	4127.8	15.2
50°-60°	5854.6	21.5
60°-70°	7831.9	28.8
70°-80°	3401.3	12.5
80°-90°	346.8	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°	27228.0	100.0
0°-180°	27228.0	100.0



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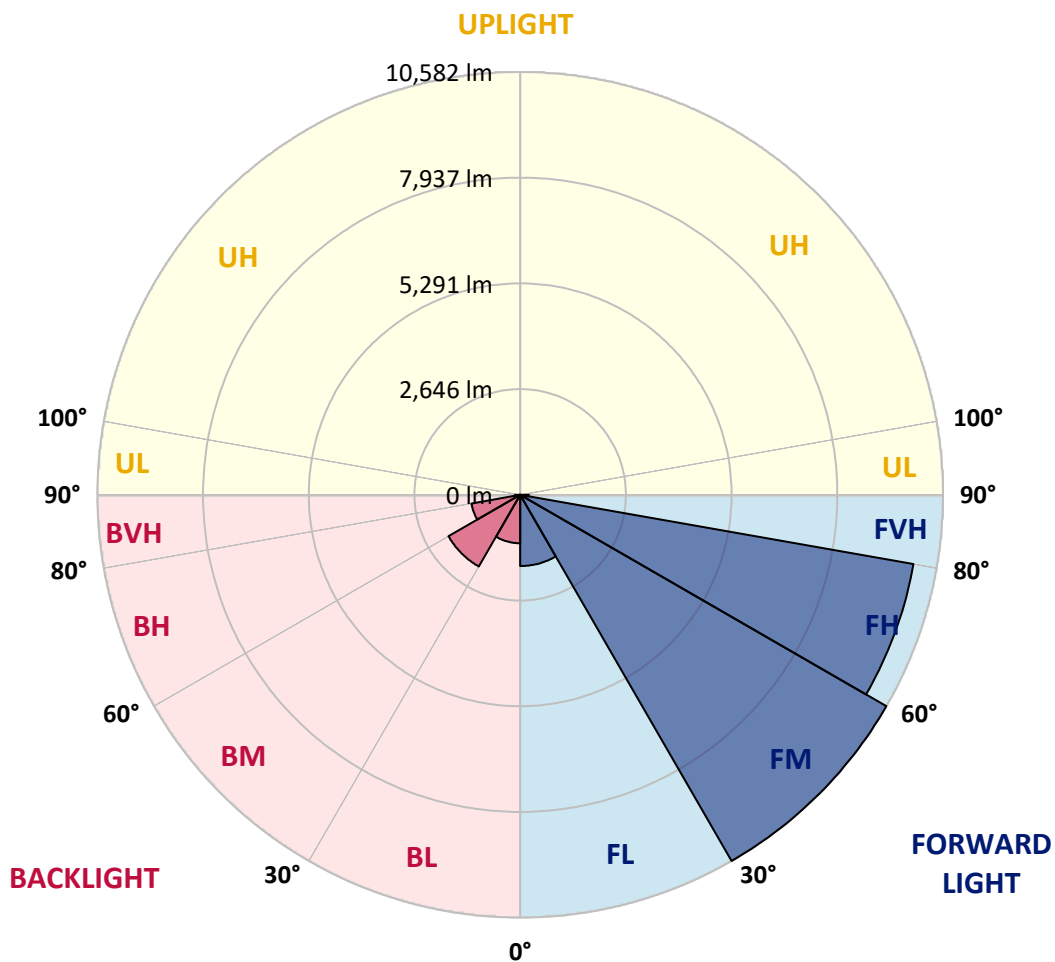
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1782.2	6.5			
FM	(30°-60°)	10582.2	38.9			
FH	(60°-80°)	9994.3	36.7			G4/12000
FVH	(80°-90°)	217.5	0.8			G2/225
BL	(0°-30°)	1211.5	4.4	B3/2500		
BM	(30°-60°)	2072.1	7.6	B2/2500		
BH	(60°-80°)	1238.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	129.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1
2.5°	3432.4	3455.6	3474.9	3492.9	3528.9	3588.1	3656.3	3711.6	3791.4	3806.8	3849.2
5°	3117.2	3117.2	3132.7	3159.7	3208.6	3297.3	3390.0	3513.5	3687.1	3728.3	3841.5
7.5°	2964.1	2965.4	2974.4	2997.6	3040.0	3121.1	3222.7	3368.1	3603.5	3671.7	3864.7
10°	3020.7	3007.9	2988.6	2977.0	2983.4	3031.0	3127.5	3289.6	3552.1	3639.5	3916.1
12.5°	3337.2	3312.8	3245.9	3157.1	3072.2	3037.5	3094.1	3252.3	3530.2	3631.8	3984.3
15°	3854.4	3844.1	3719.3	3535.3	3329.5	3157.1	3118.5	3238.2	3532.8	3640.8	4065.4
17.5°	4502.8	4488.6	4324.0	4056.4	3720.6	3384.8	3204.7	3249.7	3541.8	3656.3	4143.9
20°	5157.6	5113.9	4936.3	4617.3	4186.3	3694.9	3347.5	3279.3	3553.3	3673.0	4226.2
22.5°	5646.5	5610.5	5451.0	5140.9	4644.3	4053.8	3539.2	3330.8	3590.7	3721.9	4327.8
25°	6076.2	6078.8	5920.5	5620.8	5107.5	4434.6	3786.2	3468.4	3685.9	3822.2	4466.8
27.5°	6607.5	6576.6	6428.7	6131.5	5565.4	4819.3	4084.7	3657.6	3827.4	3965.0	4649.5
30°	7243.1	7221.2	7050.1	6713.0	6073.6	5232.2	4425.6	3877.5	4010.1	4152.9	4888.7
32.5°	7990.5	7980.2	7802.7	7369.1	6660.3	5718.5	4825.7	4168.3	4282.8	4430.7	5232.2
35°	8867.9	8869.2	8659.5	8138.5	7302.2	6284.6	5279.8	4542.7	4614.7	4769.1	5641.4
37.5°	9408.3	9473.9	9395.4	8864.1	8029.1	6917.6	5869.1	5039.3	4993.0	5148.6	6080.1
40°	9524.0	9603.8	9852.1	9581.9	8842.2	7614.9	6391.4	5516.6	5458.7	5649.1	6644.8
42.5°	9361.9	9472.6	9997.5	10187.9	9705.4	8474.3	7093.8	6225.4	6152.1	6408.1	7347.3
45°	9265.5	9347.8	9955.0	10503.1	10454.2	9445.6	7988.0	7115.7	7088.7	7424.5	8157.8
47.5°	9098.2	9172.8	9756.9	10576.4	10894.2	10335.8	9062.2	8204.1	8256.8	8696.8	9072.5
50°	9188.3	9219.1	9535.6	10389.9	11021.5	10988.1	10262.5	9464.9	9645.0	10194.3	10108.1
52.5°	9175.4	9255.2	9509.9	10083.7	11038.3	11390.8	11444.8	10871.0	11250.5	11880.9	11257.0
55°	7418.0	7564.7	9207.6	10006.5	11097.5	11785.7	12497.2	12353.1	13060.7	13795.3	12553.8
57.5°	7083.5	7176.2	8087.0	10168.6	11411.4	12539.6	13667.9	13984.4	15168.0	16020.9	14133.6
60°	7017.9	7132.4	8075.4	10366.7	12048.2	13768.2	15403.4	15959.2	17732.0	18666.0	15965.6
62.5°	6813.4	6936.9	7999.5	10341.0	12952.6	15467.7	17625.2	18058.8	20163.5	21071.8	17497.8
65°	6165.0	6280.8	7380.7	9925.4	13562.4	17281.7	20254.8	19983.4	22083.0	22766.1	18262.0
66°	5721.1	5834.3	6893.1	9436.6	13420.9	17796.3	21186.3	20579.0	22512.7	23047.9	18112.8
67.5°	4909.3	4998.1	5946.3	8341.7	12668.3	17940.4	21969.8	21026.7	22557.7	22746.8	17259.8
70°	3101.8	3127.5	3864.7	5758.4	9589.7	15559.1	20777.2	19915.2	20697.4	20185.4	14469.4
72.5°	1345.7	1336.7	1855.1	2929.4	5429.1	10440.0	16807.0	16432.6	16235.8	15067.6	10128.7
75°	748.7	759.0	963.6	1359.8	2206.4	5128.0	10994.5	10521.1	8883.4	7580.1	4592.8
77.5°	600.8	615.0	798.9	964.9	990.6	1788.3	5144.8	4186.3	2520.3	2022.4	1276.2
80°	474.7	500.5	697.3	751.3	667.7	737.2	1662.2	1329.0	997.0	914.7	661.3
82.5°	375.7	393.7	598.2	568.6	467.0	496.6	796.4	775.8	648.4	590.5	382.1
85°	270.2	303.6	491.4	428.4	306.2	334.5	528.8	506.9	371.8	303.6	168.5
87.5°	110.6	144.1	347.4	284.3	171.1	155.7	263.7	248.3	176.3	128.7	83.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1	3880.1
2.5°	3876.3	3907.1	3947.0	3971.5	3984.3	3993.3	4007.5	4006.2	4010.1	4011.3	4016.5
5°	3902.0	3953.5	4011.3	4026.8	4026.8	4012.6	3998.5	3975.3	3966.3	3963.7	3966.3
7.5°	3968.9	4025.5	4075.7	4057.7	4019.1	3962.5	3889.1	3824.8	3790.1	3778.5	3775.9
10°	4053.8	4122.0	4142.6	4074.4	3961.2	3824.8	3679.4	3573.9	3513.5	3496.7	3491.6
12.5°	4156.7	4221.0	4192.7	4048.7	3839.0	3619.0	3418.3	3249.7	3123.7	3083.8	3081.2
15°	4269.9	4320.1	4221.0	3968.9	3656.3	3332.1	2974.4	2683.7	2526.7	2476.5	2472.7
17.5°	4375.4	4401.2	4204.3	3829.9	3387.4	2862.5	2387.8	2163.9	2109.9	2122.7	2125.3
20°	4465.5	4465.5	4147.7	3630.5	2964.1	2243.7	1943.9	1940.1	1978.7	2017.3	2025.0
22.5°	4564.5	4505.4	4048.7	3348.8	2364.6	1835.9	1792.1	1828.1	1871.9	1914.3	1920.8
25°	4686.8	4537.5	3911.0	2921.7	1859.0	1667.3	1684.0	1713.6	1735.5	1762.5	1766.4
27.5°	4823.1	4578.7	3729.6	2333.7	1613.3	1561.8	1574.7	1585.0	1582.4	1592.7	1595.3
30°	4986.5	4626.3	3481.3	1824.3	1511.7	1471.8	1448.6	1439.6	1439.6	1456.3	1462.8
32.5°	5205.2	4697.1	3124.9	1563.1	1462.8	1407.4	1332.8	1299.4	1312.2	1368.8	1381.7
35°	5445.8	4773.0	2642.5	1474.3	1452.5	1377.9	1262.1	1200.3	1201.6	1254.3	1271.1
37.5°	5708.3	4869.4	2113.7	1457.6	1475.6	1379.1	1224.8	1139.8	1105.1	1105.1	1111.5
40°	6044.0	4968.5	1711.1	1469.2	1524.5	1394.6	1205.5	1092.2	994.5	997.0	1002.2
42.5°	6481.4	5053.4	1494.9	1493.6	1583.7	1415.2	1204.2	1029.2	944.3	1002.2	1054.9
45°	6967.7	5095.9	1399.7	1515.5	1631.3	1428.0	1183.6	1018.9	950.7	1123.1	1223.5
47.5°	7527.4	5071.4	1347.0	1523.2	1642.9	1428.0	1160.4	1043.4	995.8	1300.7	1417.7
50°	8141.0	5000.7	1295.5	1507.8	1639.0	1425.5	1182.3	1067.8	1012.5	1331.5	1412.6
52.5°	8862.8	4941.5	1241.5	1474.3	1612.0	1411.3	1208.0	1057.5	959.7	1210.6	1267.2
55°	9686.1	4958.2	1181.0	1426.7	1569.5	1384.3	1199.0	1016.3	904.4	1066.5	1101.3
57.5°	10738.5	5157.6	1109.0	1366.3	1511.7	1339.3	1166.9	997.0	887.7	967.5	988.0
60°	11913.1	5505.0	1018.9	1305.8	1439.6	1267.2	1142.4	1006.1	895.4	959.7	970.0
62.5°	12775.1	5707.0	941.7	1217.0	1341.8	1187.5	1111.5	1017.6	916.0	986.8	984.2
65°	13009.2	5375.0	845.2	1087.1	1209.3	1103.8	1073.0	1030.5	925.0	1008.6	997.0
66°	12681.1	5017.4	802.8	1026.6	1142.4	1062.7	1053.7	1029.2	921.1	1011.2	991.9
67.5°	11884.8	4284.1	729.5	937.9	1035.6	1000.9	1022.8	1017.6	910.9	1008.6	981.6
70°	9692.6	2923.0	624.0	780.9	862.0	881.3	963.6	976.5	877.4	963.6	904.4
72.5°	6772.2	1780.5	551.9	605.9	697.3	751.3	882.5	919.9	832.4	841.4	784.8
75°	3272.9	945.6	500.5	469.6	541.6	627.8	784.8	842.7	761.6	703.7	683.1
77.5°	1020.2	577.6	424.5	378.2	424.5	506.9	656.1	738.5	678.0	589.2	581.5
80°	548.1	424.5	326.8	303.6	335.8	397.5	515.9	616.2	582.8	528.8	472.1
82.5°	361.5	275.3	241.9	235.4	256.0	303.6	383.4	510.7	510.7	452.9	329.3
85°	186.5	168.5	166.0	166.0	178.8	202.0	261.2	393.7	419.4	239.3	198.1
87.5°	92.6	96.5	90.1	93.9	100.3	99.1	124.8	198.1	236.7	145.4	120.9
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)