

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: P192988

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43746.3 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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



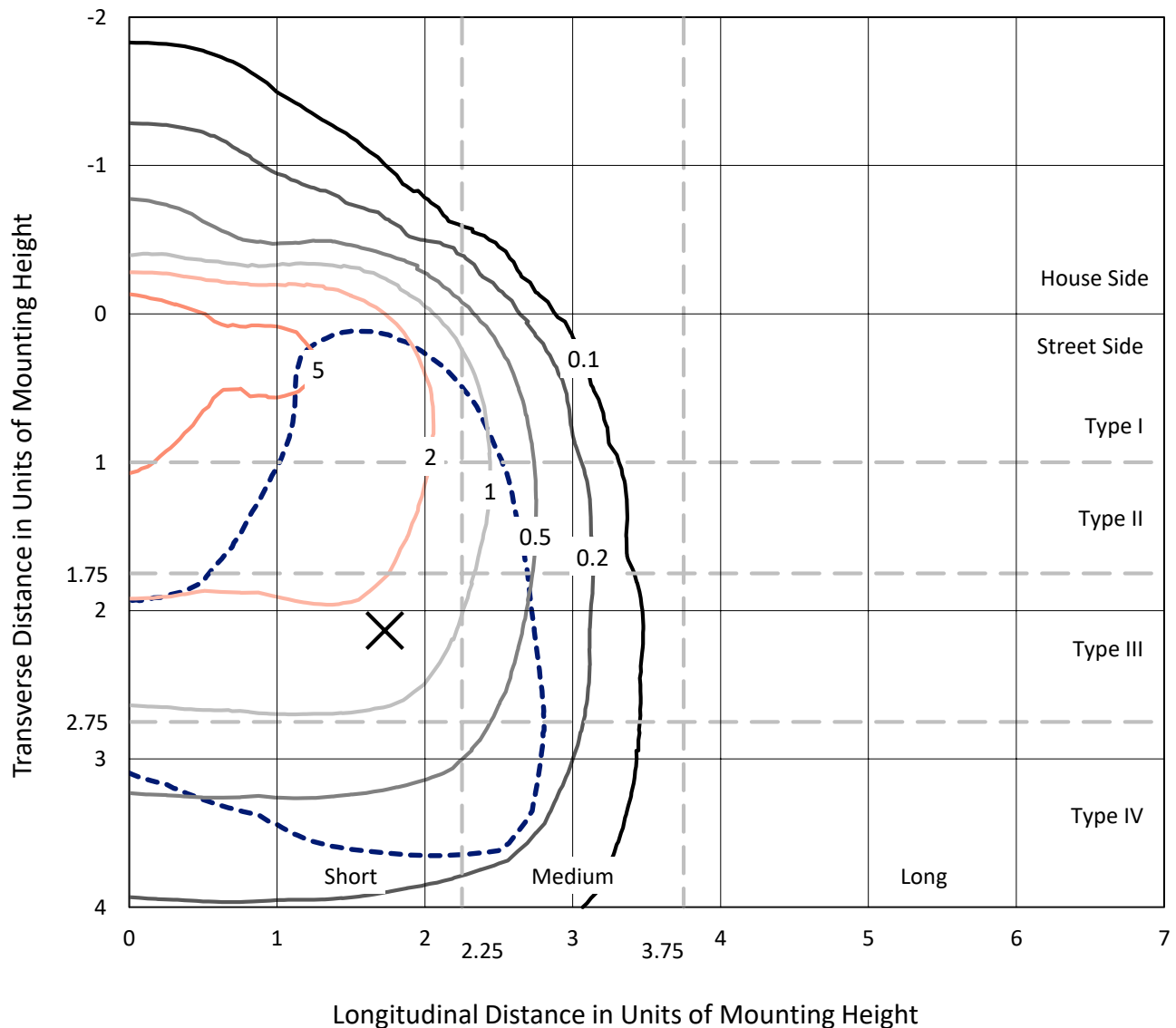
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

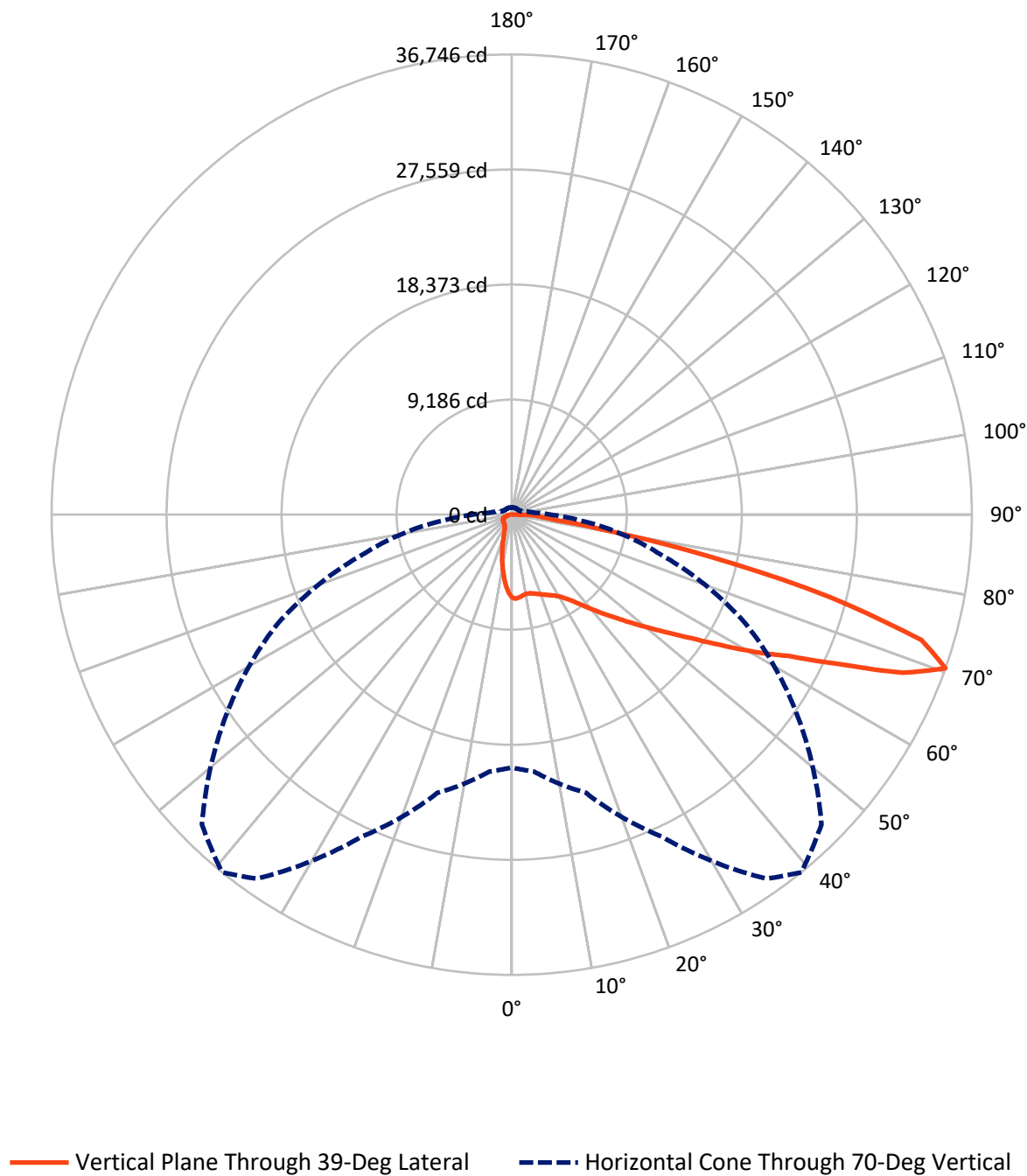


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4975.4	0.0	4975.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	38770.9	0.0	38770.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	43746.3	0.0	43746.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.0	1.3
10°-20°	1424.7	3.3
20°-30°	2218.3	5.1
30°-40°	3455.6	7.9
40°-50°	5801.4	13.3
50°-60°	9216.0	21.1
60°-70°	12293.2	28.1
70°-80°	7423.5	17.0
80°-90°	1343.6	3.1
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°	43746.3	100.0
0°-180°	43746.3	100.0

Coefficient of Utilization



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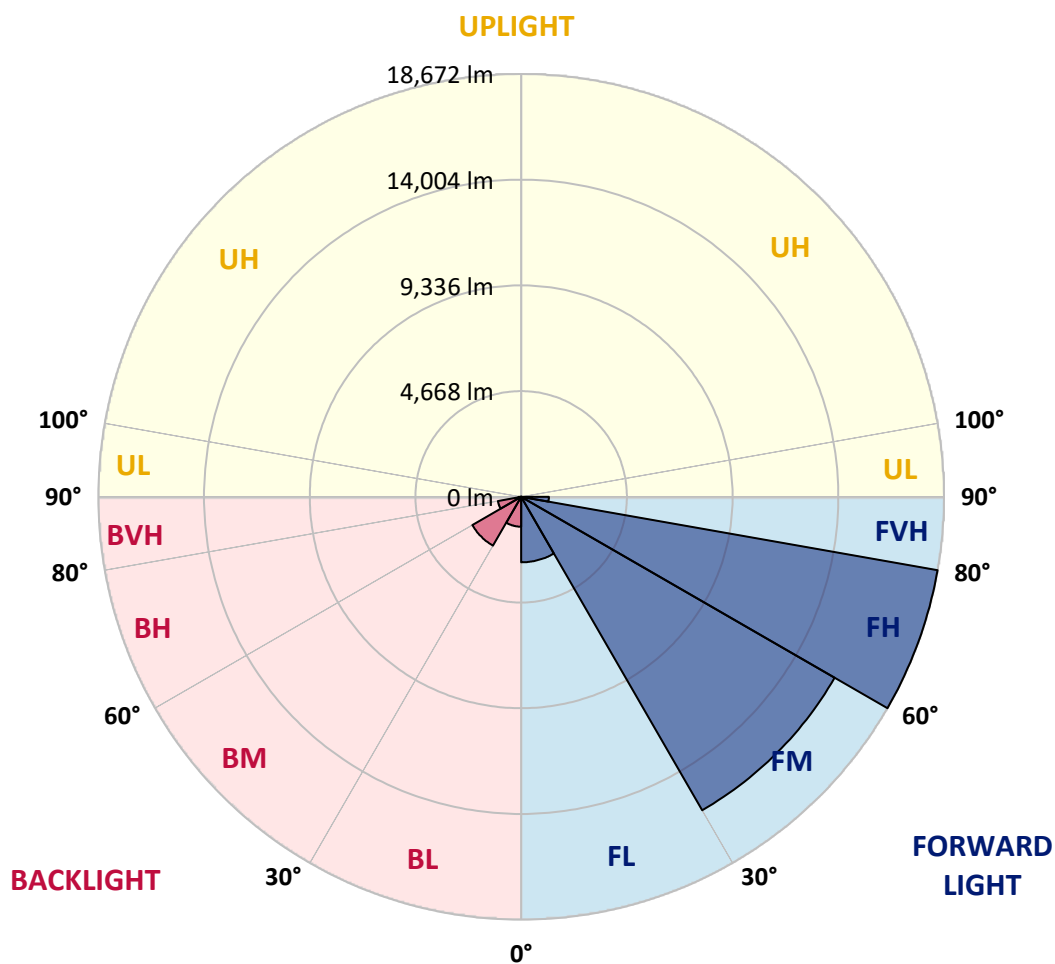
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2893.0	6.6			
FM	(30°-60°)	15983.2	36.5			
FH	(60°-80°)	18672.2	42.7			G5
FVH	(80°-90°)	1222.5	2.8			G5
BL	(0°-30°)	1319.9	3.0	B3/2500		
BM	(30°-60°)	2489.9	5.7	B2/2500		
BH	(60°-80°)	1044.5	2.4	B3/2500		G3/2500
BVH	(80°-90°)	121.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4
2.5°	6770.4	6768.2	6750.4	6737.0	6725.9	6721.4	6730.4	6696.9	6668.1	6632.5	6594.7
5°	6719.2	6717.0	6688.1	6661.4	6634.7	6625.8	6623.7	6563.5	6527.9	6474.6	6403.3
7.5°	6663.6	6652.5	6614.7	6570.2	6523.5	6501.3	6479.0	6401.2	6361.1	6307.7	6225.5
10°	6605.9	6592.4	6556.8	6512.4	6467.9	6434.5	6396.7	6321.0	6278.8	6238.8	6143.1
12.5°	6545.7	6534.6	6525.7	6505.8	6474.6	6445.6	6416.7	6352.3	6307.7	6261.0	6149.8
15°	6536.9	6532.4	6552.4	6565.7	6547.9	6530.2	6499.1	6443.4	6396.7	6350.0	6205.4
17.5°	6608.0	6605.9	6656.9	6692.5	6683.6	6652.5	6610.1	6547.9	6510.1	6470.2	6289.9
20°	6763.7	6774.8	6837.1	6883.8	6839.3	6794.9	6725.9	6639.1	6619.2	6601.3	6376.7
22.5°	7057.3	7068.4	7112.9	7130.7	7015.0	6950.5	6854.9	6743.7	6730.4	6743.7	6481.3
25°	7515.5	7504.4	7497.7	7430.9	7219.7	7119.6	6997.2	6881.5	6888.2	6948.4	6628.0
27.5°	8122.7	8062.6	7969.2	7769.0	7433.1	7322.0	7173.0	7066.3	7108.4	7224.1	6848.3
30°	8752.1	8685.3	8469.7	8142.6	7713.3	7591.2	7424.2	7304.2	7415.4	7597.8	7141.8
32.5°	9334.8	9326.0	9010.1	8589.8	8100.4	7993.6	7826.9	7691.2	7871.4	8149.3	7582.1
35°	9971.0	9991.0	9612.8	9108.0	8623.1	8511.9	8391.7	8289.5	8529.7	8912.3	8220.5
37.5°	10651.5	10691.6	10244.4	9675.1	9219.2	9172.5	9101.3	9056.8	9428.2	9957.6	9112.4
40°	11561.3	11521.2	10900.7	10315.7	9950.9	9948.7	9926.4	9979.8	10598.1	11323.2	10258.0
42.5°	12535.5	12417.6	11596.8	11003.0	10753.9	10829.4	10873.9	11091.9	12006.1	12982.5	11654.6
45°	13585.2	13320.6	12319.6	11730.3	11645.7	11805.9	11957.2	12430.9	13663.1	14870.8	13184.9
47.5°	14423.8	14167.9	13067.0	12493.1	12677.8	12920.2	13211.5	13961.1	15518.0	16821.3	14695.1
50°	15084.4	14917.5	13821.0	13382.8	13814.3	14188.0	14663.9	15693.8	17448.6	18720.8	16094.1
52.5°	15724.9	15600.4	14581.6	14294.7	15148.8	15664.8	16312.1	17553.1	19428.2	20589.2	17270.7
55°	16303.1	16214.2	15400.1	15431.2	16719.1	17390.8	18204.8	19670.6	21585.6	22255.0	18267.0
57.5°	16954.9	16841.4	16334.3	16856.9	18736.5	19608.3	20666.9	22050.3	23609.5	23736.3	19025.6
60°	17611.0	17513.0	17370.8	18502.8	21298.7	22215.0	23218.1	24356.8	25662.5	24886.2	18981.1
62.5°	18180.3	18191.4	18442.9	20231.0	23807.5	24868.4	26091.7	27217.1	27519.6	25086.4	17577.6
65°	19145.6	19321.4	20070.9	22677.7	27339.5	28758.4	30259.8	30079.6	28033.4	23215.9	14568.3
67.5°	20293.3	20602.5	22121.6	25938.2	31803.4	33687.3	34267.7	30726.9	25976.1	18872.1	10384.6
70°	20177.7	20602.5	23006.8	28369.2	35482.2	36745.5	34983.9	27808.7	20626.9	12328.6	5516.0
72.5°	17917.9	18525.1	21203.0	27254.9	34323.4	34212.2	30371.1	20731.5	12255.2	4951.0	2155.2
75°	13656.5	14270.3	16574.5	21532.2	27128.2	26194.1	21550.0	11452.2	4650.7	1966.1	1358.9
77.5°	7855.7	8331.8	10111.1	13204.8	17210.6	16252.0	11994.9	5093.3	2264.2	1370.1	1060.9
80°	4386.1	4650.7	5731.6	6699.2	8434.0	7731.1	5367.0	3165.0	1690.4	994.1	818.5
82.5°	3467.5	3703.3	4635.3	4225.9	3852.3	3554.2	3082.7	2818.1	1350.1	627.2	489.3
85°	3029.3	3254.0	3923.4	3327.4	2631.2	2413.2	2504.4	2773.5	1049.8	378.1	418.1
87.5°	2806.9	3107.2	3496.4	2564.5	2048.5	1814.9	2311.0	3040.4	338.0	235.8	169.1
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°	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4	6641.4
2.5°	6561.3	6525.7	6467.9	6416.7	6336.7	6294.4	6247.7	6214.3	6187.7	6165.4	6201.0
5°	6358.9	6292.1	6169.9	6038.6	5882.9	5760.5	5658.3	5562.6	5496.0	5451.5	5482.6
7.5°	6167.5	6058.7	5867.3	5629.4	5362.5	5135.6	4948.8	4784.1	4670.8	4597.4	4626.2
10°	6058.7	5923.0	5627.2	5253.5	4859.9	4506.2	4212.6	3959.0	3783.3	3683.2	3698.8
12.5°	6031.9	5856.2	5447.0	4933.2	4395.0	3903.4	3489.7	3138.3	2891.4	2762.4	2766.9
15°	6052.0	5827.4	5278.0	4626.2	3945.7	3325.1	2809.2	2382.1	2095.1	1948.4	1946.1
17.5°	6085.3	5805.1	5100.0	4294.9	3489.7	2769.0	2193.1	1774.9	1521.3	1403.4	1394.5
20°	6120.9	5769.6	4899.8	3936.8	3016.0	2253.0	1717.0	1390.1	1229.9	1165.5	1161.0
22.5°	6172.0	5738.4	4693.0	3558.7	2551.1	1834.9	1412.4	1192.1	1107.7	1074.2	1069.8
25°	6254.3	5722.8	4472.8	3165.0	2133.0	1534.6	1229.9	1094.3	1045.4	1023.1	1020.9
27.5°	6392.2	5745.1	4265.9	2782.4	1792.7	1332.3	1127.7	1045.4	1009.8	989.8	987.4
30°	6570.2	5814.0	4047.9	2419.9	1528.0	1194.4	1065.4	1012.0	983.2	963.0	963.0
32.5°	6866.0	5929.6	3818.9	2106.3	1339.0	1098.7	1018.7	983.2	958.6	943.0	940.8
35°	7301.9	6147.6	3605.3	1846.1	1203.3	1029.8	978.6	951.9	934.1	925.2	925.2
37.5°	7935.8	6492.4	3416.3	1659.2	1121.0	983.2	940.8	920.8	909.7	909.7	909.7
40°	8787.7	6968.3	3262.8	1534.6	1074.2	949.7	911.9	896.4	889.7	891.9	891.9
42.5°	9839.7	7586.6	3160.6	1447.9	1052.0	929.7	891.9	878.6	871.9	869.7	871.9
45°	11038.6	8289.5	3149.4	1383.4	1029.8	916.3	878.6	865.3	851.9	842.9	842.9
47.5°	12204.0	9003.4	3240.6	1361.2	1005.3	900.9	867.4	854.1	834.0	814.1	814.1
50°	13233.8	9610.7	3362.9	1370.1	996.5	878.6	849.6	842.9	811.8	789.6	787.3
52.5°	14052.3	10077.7	3463.1	1396.8	1005.3	862.9	827.4	829.6	796.3	771.8	769.5
55°	14708.5	10384.6	3436.3	1423.4	1025.3	854.1	807.4	811.8	785.1	760.7	760.7
57.5°	14995.4	10271.3	3140.5	1401.2	1040.9	856.3	791.8	809.6	787.3	765.2	765.2
60°	14379.3	9263.6	2586.7	1303.4	1020.9	849.6	785.1	818.5	816.2	794.0	791.8
62.5°	12515.4	7459.9	2006.2	1158.8	951.9	816.2	767.3	816.2	840.7	834.0	831.8
65°	9646.2	5313.5	1532.5	1003.1	858.6	760.7	720.7	765.2	798.4	807.4	805.1
67.5°	6261.0	3256.2	1181.0	856.3	754.0	696.2	660.6	680.5	687.2	687.2	682.9
70°	3078.3	1752.6	940.8	720.7	647.3	627.2	607.2	596.1	585.0	576.1	576.1
72.5°	1519.1	1145.5	774.0	609.4	558.4	549.3	544.8	531.5	522.7	511.6	507.1
75°	1123.1	931.9	658.4	513.7	480.4	471.6	480.4	469.3	467.1	458.3	453.8
77.5°	923.0	794.0	567.2	440.5	411.5	395.9	409.2	411.5	413.6	400.3	395.9
80°	749.5	671.7	473.7	364.8	338.0	326.9	335.9	353.7	358.1	338.0	329.2
82.5°	540.5	549.3	382.5	284.7	262.4	253.6	271.4	293.6	298.1	269.1	262.4
85°	453.8	458.3	293.6	202.3	180.2	166.8	195.7	218.0	233.5	204.7	198.0
87.5°	189.0	269.1	169.1	113.4	100.1	86.8	104.6	115.7	140.1	129.0	126.7
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)