

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: P191978

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58921 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

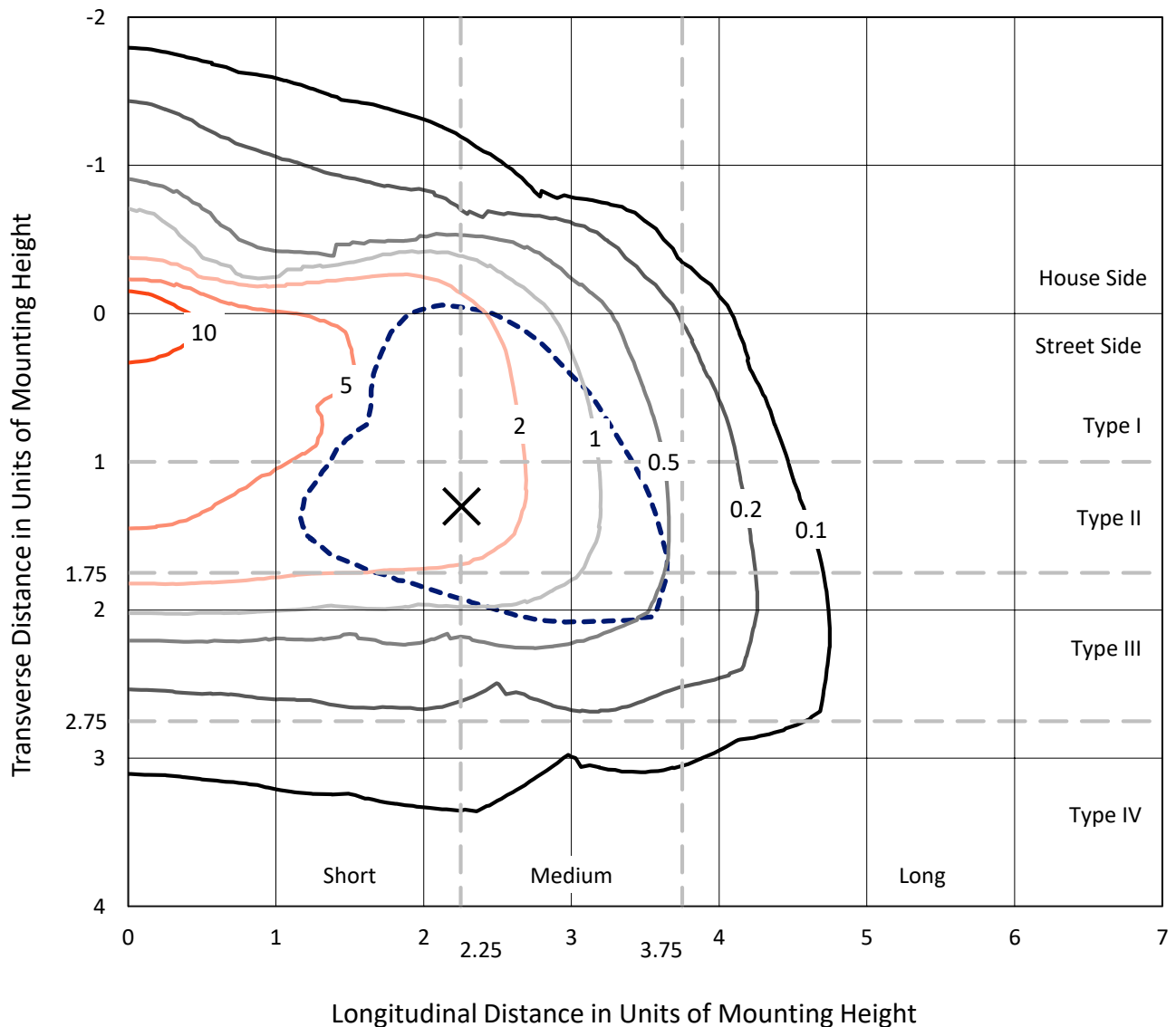
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

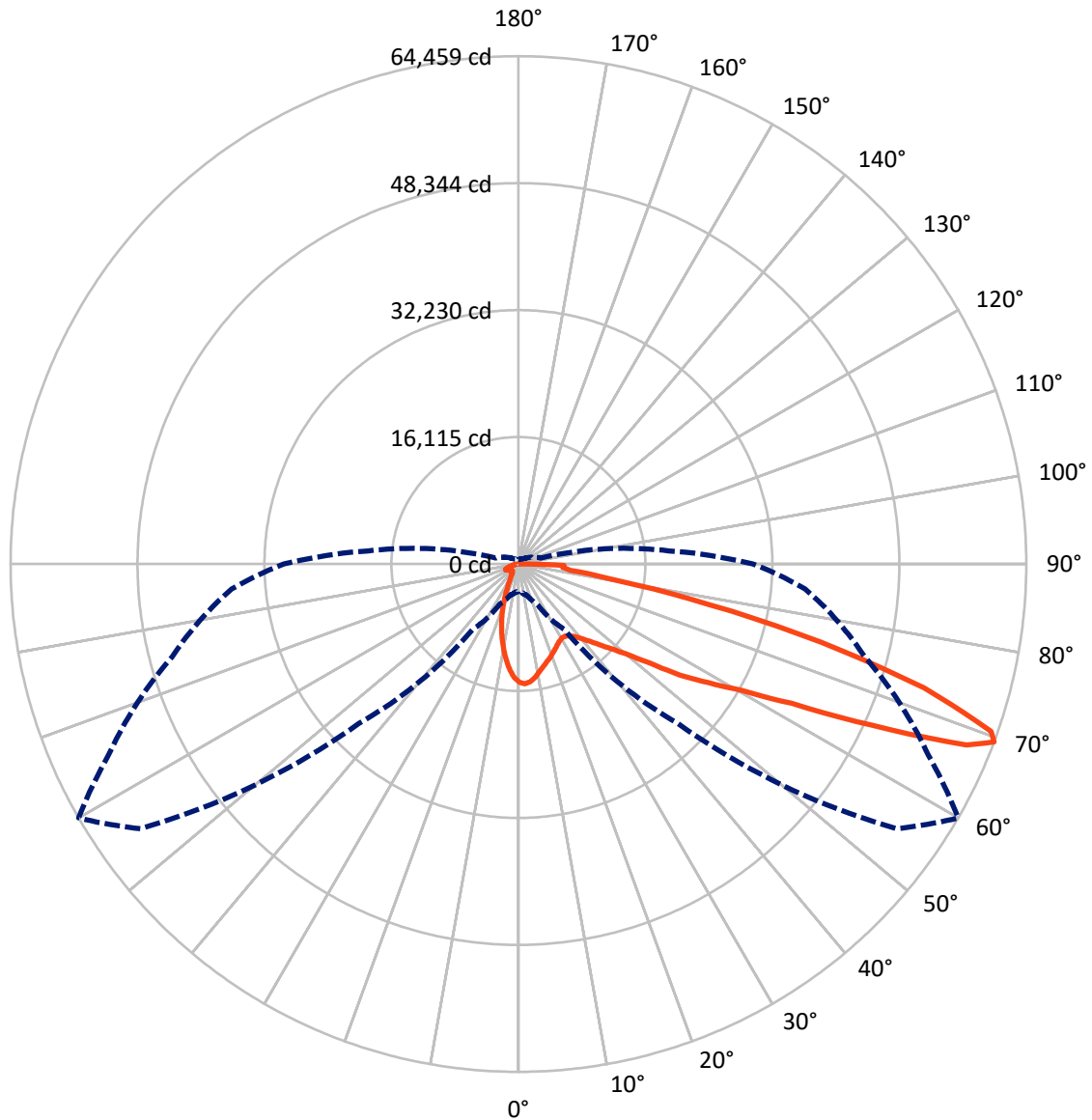
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8382.6	0.0	8382.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	50538.4	0.0	50538.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	58921.0	0.0	58921.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1269.5	2.2
10°-20°	2704.7	4.6
20°-30°	3446.3	5.8
30°-40°	4737.8	8.0
40°-50°	7687.5	13.0
50°-60°	12328.8	20.9
60°-70°	16408.7	27.8
70°-80°	8859.4	15.0
80°-90°	1478.3	2.5
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°	58921.0	100.0
0°-180°	58921.0	100.0



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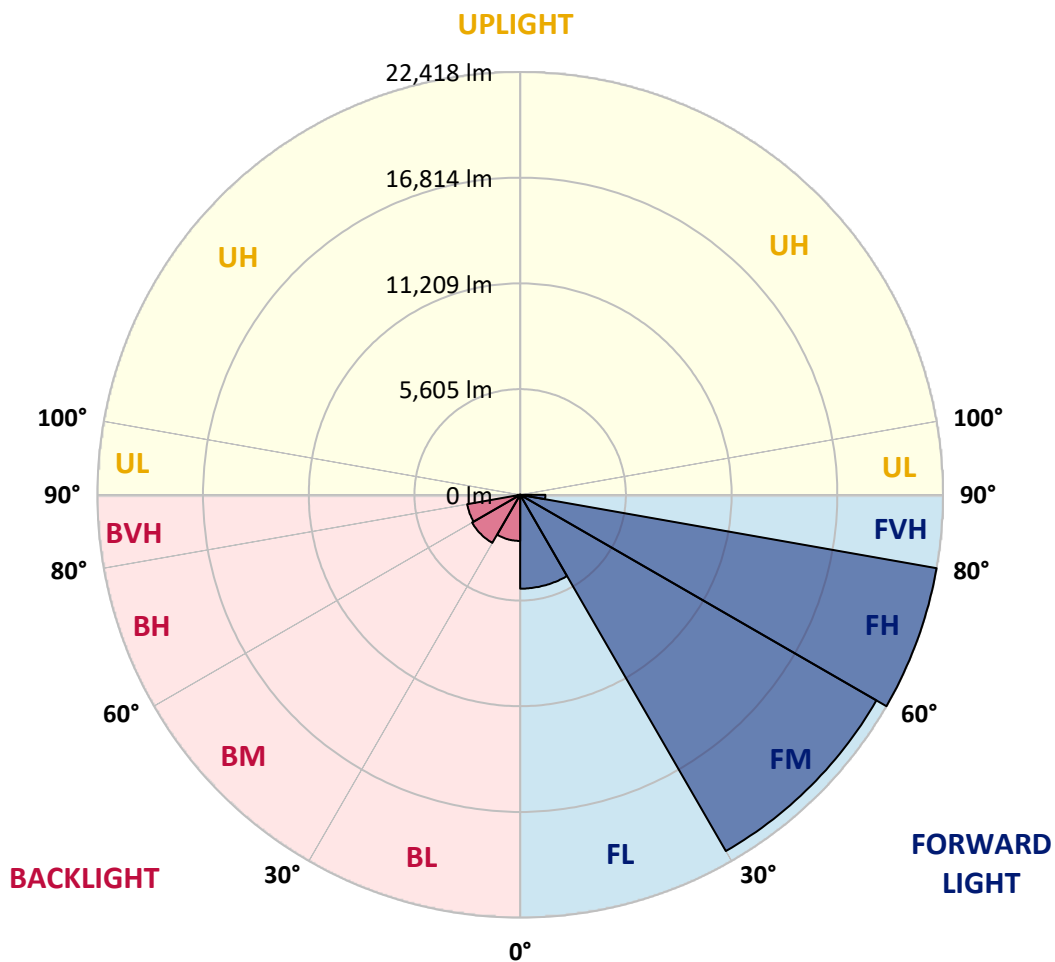
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4975.1	8.4			
FM	(30°-60°)	21809.1	37.0			
FH	(60°-80°)	22418.3	38.0			G5
FVH	(80°-90°)	1335.9	2.3			G5
BL	(0°-30°)	2445.5	4.2	B3/2500		
BM	(30°-60°)	2945.0	5.0	B3/5000		
BH	(60°-80°)	2849.8	4.8	B4/5000		G4/5000
BVH	(80°-90°)	142.3	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0
2.5°	15321.4	15355.5	15341.3	15332.7	15358.4	15318.5	15236.0	15210.4	15170.5	15076.6	14917.2
5°	14746.4	14848.9	14843.2	14920.0	15048.1	15082.3	15045.3	15051.0	14977.0	14860.3	14595.6
7.5°	13753.1	13795.8	13818.5	13986.5	14219.9	14407.7	14567.1	14618.3	14584.2	14484.6	14143.0
10°	12728.4	12762.6	12816.7	13013.1	13309.1	13568.1	13869.8	14043.4	14117.4	14100.3	13718.9
12.5°	11848.9	11883.1	11954.2	12176.3	12529.2	12848.0	13286.3	13502.6	13679.1	13784.4	13374.5
15°	11060.5	11134.5	11202.8	11459.0	11854.6	12273.0	12768.3	13041.5	13314.8	13551.0	13070.0
17.5°	10445.7	10519.7	10559.6	10793.0	11214.2	11726.5	12307.2	12628.8	12970.4	13357.4	12768.3
20°	10090.0	10124.1	10107.0	10238.0	10616.5	11160.1	11848.9	12221.8	12634.5	13175.3	12466.6
22.5°	9990.3	9993.2	9930.6	9916.3	10161.1	10619.4	11359.4	11811.9	12318.6	13055.7	12207.6
25°	10232.3	10223.7	10053.0	9913.5	9939.1	10206.7	10886.9	11413.5	12053.9	13030.1	12008.3
27.5°	10770.2	10795.8	10542.5	10280.7	10021.6	10013.1	10528.3	11083.3	11837.6	13146.8	11922.9
30°	11524.5	11567.2	11296.8	10963.8	10477.0	10075.7	10388.8	10886.9	11703.8	13388.8	11908.7
32.5°	12349.9	12395.4	12190.5	11840.4	11202.8	10462.8	10485.6	10904.0	11698.1	13727.5	12005.5
35°	13229.4	13280.6	13175.3	12879.3	12170.6	11177.2	10855.6	11180.1	11883.1	14245.5	12264.5
37.5°	14211.3	14291.0	14319.5	14037.7	13280.6	12119.3	11461.8	11703.8	12301.5	14965.6	12739.8
40°	15625.9	15736.9	15728.4	15324.2	14552.9	13391.6	12398.3	12460.9	12953.3	15927.6	13499.8
42.5°	18335.5	18358.3	17649.6	16770.1	15953.2	14729.3	13502.6	13451.4	13852.7	17145.8	14618.3
45°	21782.3	21688.4	20111.6	18412.4	17416.2	16266.3	14940.0	14689.5	14994.0	18631.5	16018.7
47.5°	24642.8	24426.5	22434.1	20088.8	18964.6	17937.1	16627.8	16189.5	16357.4	20316.5	17828.9
50°	25636.2	25473.9	23823.1	21483.5	20430.4	19975.0	18705.6	18085.1	18130.6	22326.0	19949.4
52.5°	25422.7	25399.9	24298.4	22402.8	21802.3	22115.4	21648.6	20808.9	20364.9	24557.4	22237.7
55°	24918.9	24967.3	24568.8	23473.0	23370.6	24181.7	25493.9	24873.4	23492.9	26808.8	24603.0
57.5°	23168.5	23293.7	24170.3	24819.3	25895.2	27102.0	28590.6	28414.1	26860.1	29242.4	27415.1
60°	18665.7	18956.0	21307.0	24557.4	28493.8	32267.9	32934.0	32524.1	30332.5	32262.2	31129.4
62.5°	13078.5	13380.2	16175.2	21261.5	28066.9	38102.7	40698.5	38931.0	35319.1	36710.9	35936.7
65°	7001.8	7146.9	9281.6	14752.1	23695.0	39306.7	52046.5	49356.8	43214.6	42195.6	40049.6
67.5°	3862.4	3942.1	4758.9	7448.6	15176.2	34613.2	59276.0	61308.2	53082.6	45847.4	39301.0
69°	3492.3	3566.4	4101.4	5641.3	10155.4	28619.0	58570.1	64459.0	57408.9	45485.9	36534.5
70°	3415.5	3483.8	3964.8	5200.1	8220.0	23589.7	56204.9	63653.5	58439.2	44190.9	34120.8
72.5°	3073.9	3148.0	3614.7	4670.7	7024.5	11760.7	44521.0	53819.7	53056.9	38316.2	25880.9
75°	2866.2	2934.5	3725.7	4573.9	6725.7	7442.9	29350.5	39665.3	39002.2	26803.1	13955.2
77.5°	1226.7	1221.0	1727.7	3870.9	6825.3	7206.7	15771.1	24779.4	22607.8	11456.2	4007.5
80°	819.7	805.5	819.7	1138.5	6258.9	7246.6	8262.7	12577.6	9500.8	2920.3	1975.3
82.5°	705.9	694.5	720.1	694.5	2200.2	8271.2	7024.5	6688.7	4517.0	1659.4	979.1
85°	475.3	455.4	620.5	623.3	1038.9	7349.0	7912.6	5649.8	3654.6	984.8	483.9
87.5°	227.7	222.0	361.5	441.2	609.1	2985.7	8877.5	5789.3	3685.9	503.8	230.5
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°	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0	15014.0
2.5°	14868.8	14752.1	14638.3	14501.6	14359.3	14199.9	14120.2	14040.5	14020.6	13997.9	13918.2
5°	14458.9	14293.9	14009.2	13696.2	13366.0	13044.4	12799.6	12645.9	12529.2	12469.4	12364.1
7.5°	13929.5	13687.6	13189.5	12648.7	12093.7	11587.1	11148.8	10872.7	10610.8	10488.4	10349.0
10°	13425.8	13064.3	12290.1	11493.2	10696.2	9930.6	9210.5	8701.0	8248.4	7995.1	7815.8
12.5°	12993.1	12497.9	11424.8	10346.1	9253.2	8163.0	7084.3	6236.1	5527.4	5154.6	4963.9
15°	12571.9	11974.2	10602.3	9233.2	7830.0	6347.1	4929.7	3967.7	3381.3	3148.0	3068.3
17.5°	12190.5	11424.8	9776.9	8111.8	6361.4	4568.2	3313.0	2783.6	2558.8	2481.9	2456.3
20°	11777.8	10869.8	8920.1	6939.2	4830.1	3193.5	2587.2	2353.8	2262.8	2240.0	2228.6
22.5°	11379.3	10323.3	8100.4	5684.0	3469.6	2464.9	2222.9	2126.1	2111.9	2131.8	2131.8
25°	11040.6	9833.8	7215.2	4371.8	2547.4	2074.9	1989.5	1966.8	2020.8	2094.8	2109.1
27.5°	10787.3	9432.5	6273.1	3227.6	2029.4	1804.5	1801.7	1838.7	1972.5	2114.8	2143.2
30°	10613.7	9051.1	5265.6	2328.2	1702.1	1588.2	1633.7	1713.4	1909.8	2111.9	2166.0
32.5°	10525.4	8769.3	4215.3	1801.7	1457.3	1394.7	1471.5	1568.3	1761.8	1949.7	2020.8
35°	10593.7	8561.5	3224.8	1502.8	1286.5	1238.1	1317.8	1411.7	1525.6	1605.3	1659.4
37.5°	10849.9	8479.0	2433.5	1346.3	1169.8	1124.3	1186.9	1241.0	1286.5	1309.3	1334.9
40°	11402.1	8567.2	1949.7	1266.6	1104.3	1047.4	1073.0	1093.0	1121.4	1144.2	1155.6
42.5°	12216.1	8831.9	1747.6	1235.3	1070.2	987.6	982.0	990.5	1027.5	1070.2	1078.7
45°	13354.6	9298.7	1733.4	1255.2	1053.1	939.3	913.6	925.0	982.0	1047.4	1058.8
47.5°	14809.0	10010.3	1847.2	1315.0	1067.3	913.6	871.0	885.2	956.3	1044.6	1058.8
50°	16570.9	11003.6	2037.9	1403.2	1130.0	919.3	856.7	865.3	939.3	1036.0	1050.3
52.5°	18651.5	12412.5	2245.7	1488.6	1195.4	956.3	868.1	848.2	916.5	1001.9	1019.0
55°	20965.5	14219.9	2459.2	1565.4	1229.6	1001.9	890.9	825.4	873.8	945.0	959.2
57.5°	23806.0	16747.3	2829.2	1639.4	1252.3	1033.2	913.6	802.6	819.7	871.0	882.3
60°	27651.3	20322.2	3481.0	1761.8	1303.6	1044.6	910.8	782.7	765.6	794.1	799.8
62.5°	32259.4	24204.5	4024.6	1915.5	1389.0	1053.1	893.7	768.5	720.1	720.1	725.8
65°	34994.6	25243.4	3722.9	2043.6	1460.1	1044.6	873.8	754.3	685.9	654.6	657.5
67.5°	32674.9	22200.7	3190.6	2069.2	1457.3	1004.7	842.5	728.6	651.8	603.4	600.6
69°	29768.9	19155.3	2951.6	2000.9	1389.0	953.5	802.6	700.2	626.2	574.9	572.1
70°	27426.5	17296.7	2795.0	1926.9	1315.0	916.5	771.3	674.6	606.3	557.9	552.2
72.5°	19940.8	11333.8	2388.0	1656.5	1084.4	768.5	666.0	592.0	540.8	512.3	506.6
75°	9964.7	5405.0	1938.3	1343.4	831.1	614.8	546.5	495.2	469.6	463.9	461.1
77.5°	3273.2	2476.2	1386.1	1001.9	617.6	481.0	441.2	404.2	398.5	415.6	409.9
80°	1798.8	1440.2	879.5	663.2	421.2	352.9	347.2	327.3	335.9	364.3	358.6
82.5°	916.5	748.6	543.6	398.5	284.6	253.3	276.1	264.7	276.1	301.7	298.9
85°	452.6	409.9	344.4	241.9	187.9	162.2	196.4	204.9	210.6	230.5	230.5
87.5°	261.9	241.9	182.2	113.8	93.9	85.4	113.8	111.0	130.9	142.3	139.5
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)