

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: P193526

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43809 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 511
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

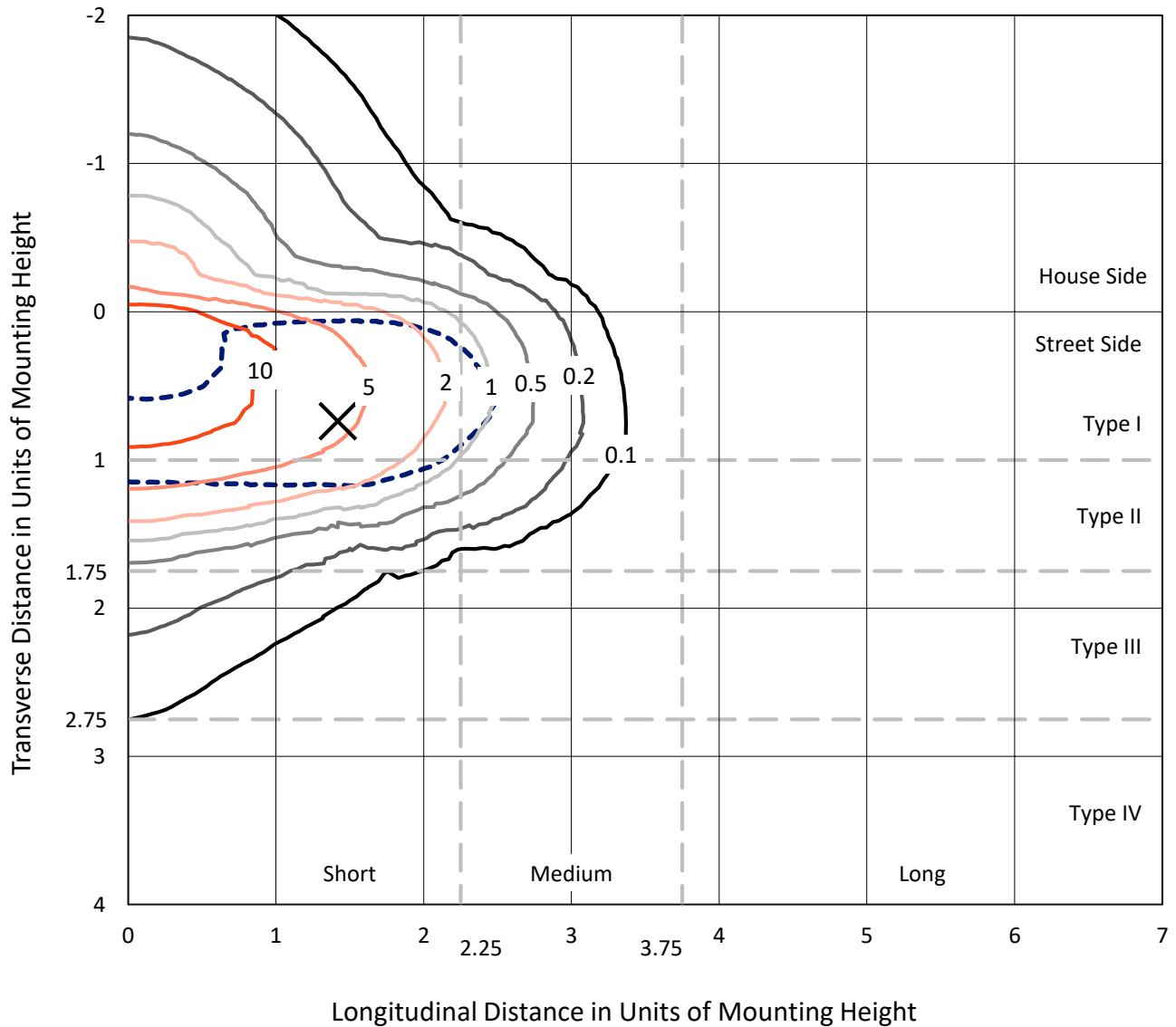


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

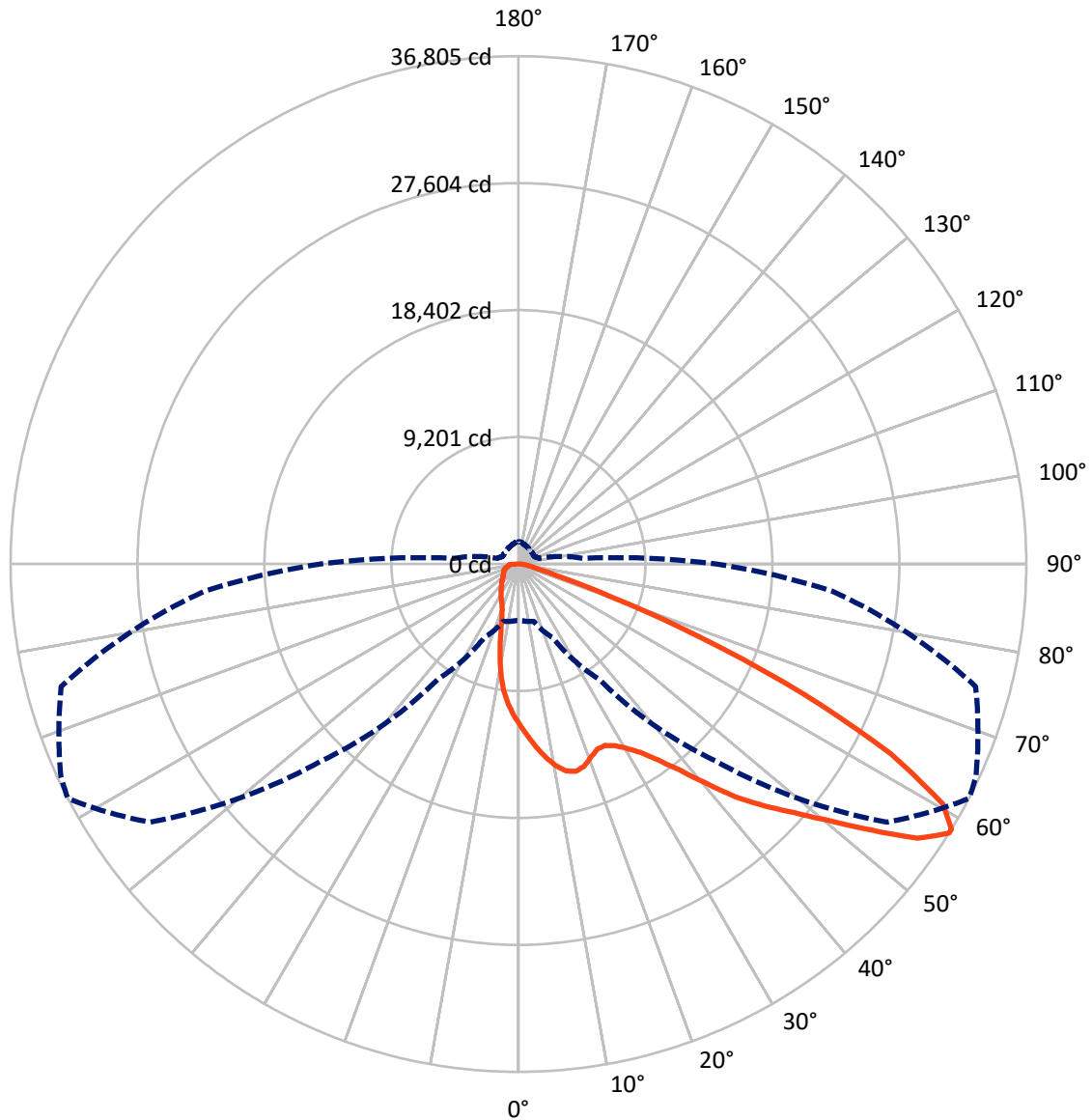


Based on 30 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6681.0	0.0	6681.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	37128.0	0.0	37128.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	43809.0	0.0	43809.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.8	2.4
10°-20°	2660.3	6.1
20°-30°	4300.5	9.8
30°-40°	6827.0	15.6
40°-50°	9989.4	22.8
50°-60°	10448.1	23.8
60°-70°	6172.7	14.1
70°-80°	1738.9	4.0
80°-90°	631.3	1.4
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°	43809.0	100.0
0°-180°	43809.0	100.0



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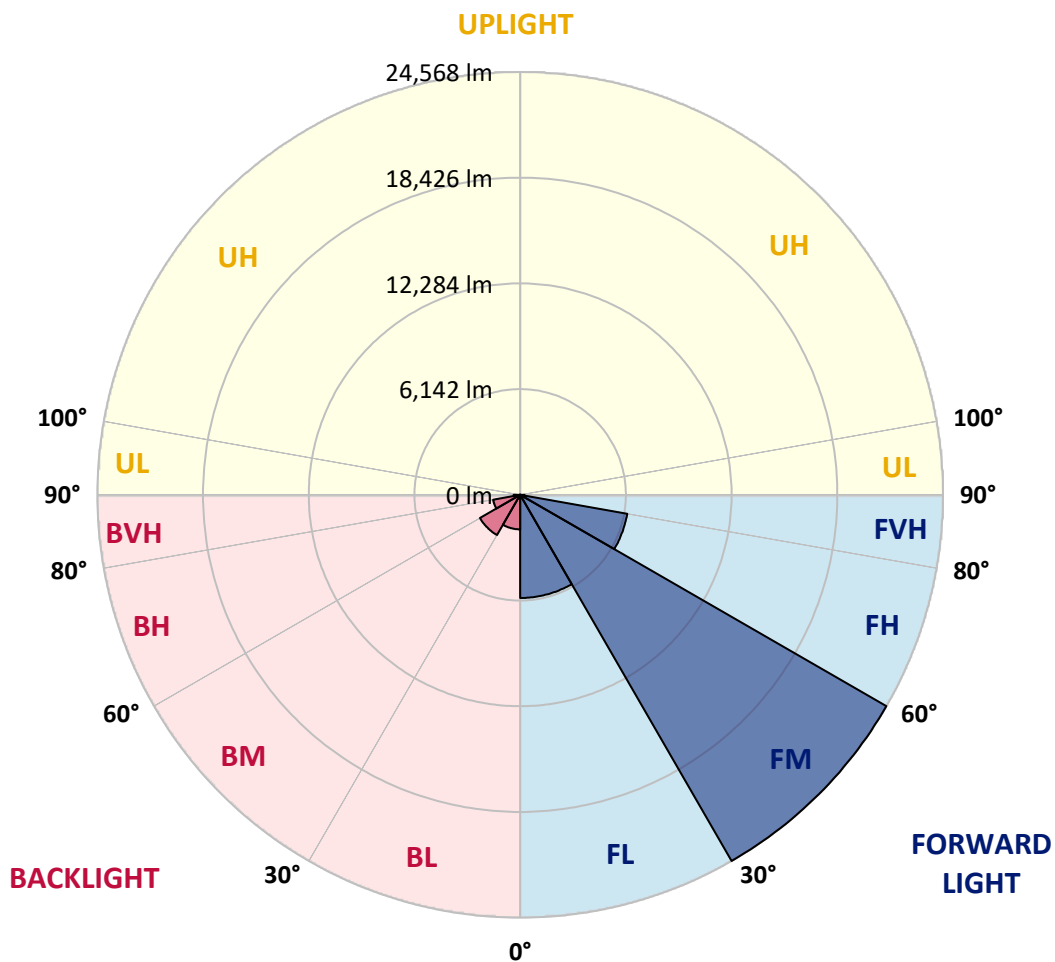
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5993.6	13.7			
FM (30°-60°)	24567.8	56.1			
FH (60°-80°)	6317.4	14.4			G3/7500
FVH (80°-90°)	249.1	0.6			G3/500
BL (0°-30°)	2008.0	4.6	B3/2500		
BM (30°-60°)	2696.6	6.2	B3/5000		
BH (60°-80°)	1594.2	3.6	B3/2500		G3/2500
BVH (80°-90°)	382.3	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0
2.5°	13297.6	13190.4	13122.3	13062.5	12984.1	12817.0	12592.1	12449.8	12377.6	12132.1	11841.2
5°	14601.4	14506.5	14436.4	14355.9	14215.6	13953.6	13590.6	13301.8	13159.4	12668.4	12086.7
7.5°	14296.1	14335.3	14457.0	14669.5	14851.0	14815.9	14492.1	14124.9	13937.1	13254.3	12371.4
10°	12456.0	12524.0	12734.4	13231.6	14036.2	14861.3	15113.0	14859.3	14669.5	13834.0	12664.3
12.5°	12086.7	12084.6	12101.1	12233.2	12711.8	13873.2	15133.6	15389.4	15276.0	14386.8	12963.4
15°	12237.3	12241.4	12229.0	12284.7	12433.3	12893.3	14502.4	15593.7	15674.1	14943.8	13272.9
17.5°	12633.4	12623.0	12575.6	12575.6	12629.2	12808.7	13759.7	15403.9	15775.2	15436.9	13545.2
20°	13297.6	13250.2	13124.3	13008.8	12951.1	13048.0	13454.4	14966.5	15599.9	15868.0	13770.0
22.5°	14102.2	14065.0	13860.8	13613.3	13413.1	13411.1	13611.2	14584.9	15296.6	16274.4	13959.8
25°	15141.9	15082.1	14778.8	14382.7	14032.0	13897.9	13953.6	14566.3	15131.6	16715.9	14129.0
27.5°	16363.1	16253.8	15894.8	15323.4	14807.7	14537.4	14457.0	14902.6	15282.2	17262.6	14364.2
30°	17844.3	17718.5	17258.4	16513.7	15785.5	15342.0	15170.8	15498.8	15781.4	17928.9	14741.7
32.5°	19529.7	19348.2	18816.0	17994.9	17037.7	16361.1	16082.6	16286.8	16511.7	18731.4	15214.1
35°	21858.8	21642.2	20872.7	19740.1	18659.2	17728.8	17283.2	17431.7	17650.4	19927.9	15896.9
37.5°	23447.2	23350.3	22838.7	21774.2	20598.3	19527.7	18838.6	18925.3	19049.1	21423.5	16771.6
40°	23432.8	23472.0	23482.3	23492.6	22692.2	21666.9	20926.3	20835.6	20810.8	23065.6	17765.9
42.5°	22259.0	22419.9	22939.7	23993.9	24480.7	24010.4	23331.7	23069.7	22939.7	25000.6	18820.1
45°	20462.2	20548.8	21522.5	23581.3	25396.7	26331.2	25817.5	24992.4	24757.2	26778.8	19694.8
47.5°	19535.9	19630.8	20243.5	22488.0	25386.4	28206.4	28503.5	26931.5	26510.7	28326.0	20449.8
50°	17330.6	17528.7	18300.2	20585.9	24460.1	29068.7	31311.1	29242.0	28371.4	29832.0	21206.9
52.5°	13281.1	13586.4	14450.8	17458.5	22110.4	28641.7	33557.6	32043.4	30813.9	31391.6	21856.7
55°	8377.5	8604.5	9330.6	12330.1	17687.5	26419.9	34409.6	35073.9	33980.5	32868.6	22419.9
57.5°	4554.9	4656.0	4928.3	6807.7	11504.9	21508.1	33167.7	36798.5	36344.6	34122.9	22844.8
58°	4076.3	4144.4	4313.6	5900.0	10203.2	20165.1	32616.9	36804.7	36577.8	34306.5	22877.9
60°	3024.3	2989.2	2838.6	3366.7	5679.2	13930.9	29287.4	35331.7	35998.1	34531.3	22716.9
62.5°	2657.0	2572.5	2265.1	2230.0	2762.3	6417.8	22409.6	30265.2	31839.2	33248.2	21739.1
65°	2496.1	2405.4	2009.3	1881.4	1992.8	2714.8	13200.7	22698.4	24672.6	29357.5	19238.9
67.5°	2376.5	2258.9	1846.3	1671.0	1679.2	1794.7	5291.4	14296.1	16517.9	22289.9	14964.5
70°	2261.0	2133.1	1708.1	1505.9	1458.5	1419.3	2104.2	7156.3	9171.8	14079.5	9541.0
72.5°	2137.2	2011.4	1586.4	1376.0	1283.1	1153.2	1373.9	2927.3	4088.7	6661.2	4328.0
75°	1957.7	1844.3	1464.7	1260.4	1128.4	955.1	1037.7	1528.6	1833.9	2652.9	2085.6
77.5°	1737.0	1644.2	1328.5	1165.6	1000.5	775.7	798.4	1060.3	1175.9	1518.3	1239.8
80°	1248.1	1281.1	1182.1	1048.0	891.2	629.2	612.7	773.6	835.5	975.8	806.6
82.5°	876.7	895.3	977.8	856.1	736.5	495.1	451.8	544.6	581.7	641.6	435.3
85°	604.4	583.8	670.5	596.2	532.2	330.1	309.4	369.3	392.0	398.1	224.9
87.5°	363.1	363.1	387.8	319.8	286.7	171.2	167.1	210.4	224.9	214.5	123.8
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°	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0
2.5°	11667.9	11521.4	11209.9	10960.3	10644.7	10316.7	10133.1	9937.1	9803.0	9706.1	9860.8
5°	11756.6	11457.5	10813.9	10203.2	9528.7	8827.3	8295.0	7799.9	7455.4	7240.9	7443.0
7.5°	11896.9	11436.9	10411.6	9367.7	8156.8	6989.2	5945.4	5291.4	4909.8	4722.0	4839.6
10°	12057.8	11403.9	9939.2	8235.2	6502.3	5031.5	4251.7	3987.6	3901.0	3865.9	3882.4
12.5°	12191.9	11333.7	9359.5	6865.4	4882.9	3973.2	3748.3	3742.1	3760.7	3764.8	3771.0
15°	12286.8	11230.6	8499.3	5437.9	3905.1	3620.4	3608.1	3645.2	3680.3	3694.7	3703.0
17.5°	12350.7	11018.1	7527.6	4299.1	3498.7	3449.2	3478.1	3525.5	3562.7	3573.0	3581.2
20°	12344.6	10706.6	6370.3	3585.4	3278.0	3278.0	3327.5	3364.6	3366.7	3354.3	3360.5
22.5°	12280.6	10279.6	5248.1	3205.8	3082.0	3117.1	3166.6	3131.5	2987.1	2892.2	2898.4
25°	12173.3	9770.0	4286.8	2964.4	2900.5	2962.4	2947.9	2683.9	2477.6	2384.7	2384.7
27.5°	12078.4	9167.6	3548.2	2754.0	2718.9	2795.3	2539.5	2300.2	2213.5	2170.2	2155.8
30°	12010.4	8517.8	3055.2	2551.8	2547.7	2492.0	2203.2	2137.2	2122.8	2087.7	2075.3
32.5°	12026.9	7859.8	2739.6	2374.4	2388.9	2133.1	2042.3	2056.7	2044.4	2007.2	1990.7
35°	12163.0	7234.7	2533.3	2213.5	2170.2	1926.8	1947.4	1974.2	1970.1	1918.5	1902.0
37.5°	12406.4	6642.6	2397.1	2079.4	1893.8	1823.6	1856.6	1897.9	1887.6	1852.5	1840.1
40°	12662.2	6085.6	2285.7	1974.2	1730.8	1753.5	1782.4	1805.1	1815.4	1825.7	1817.4
42.5°	12911.9	5503.9	2149.6	1866.9	1662.7	1687.5	1699.9	1722.5	1778.2	1817.4	1815.4
45°	13060.4	4957.2	2009.3	1714.3	1609.1	1623.5	1615.3	1660.7	1728.7	1792.7	1794.7
47.5°	13225.4	4532.2	1897.9	1574.0	1557.5	1567.8	1543.1	1588.5	1650.3	1728.7	1737.0
50°	13425.5	4278.5	1809.2	1462.6	1487.4	1487.4	1481.2	1522.4	1609.1	1699.9	1716.4
52.5°	13652.4	4229.0	1734.9	1382.2	1417.2	1415.2	1421.4	1483.2	1578.1	1666.8	1681.3
55°	13928.9	4363.1	1654.5	1322.3	1349.2	1357.4	1378.0	1448.2	1528.6	1629.7	1635.9
57.5°	14250.7	4635.4	1590.5	1274.9	1287.3	1314.1	1347.1	1411.0	1497.7	1609.1	1615.3
58°	14304.3	4693.2	1580.2	1270.8	1274.9	1305.8	1343.0	1404.9	1491.5	1613.2	1619.4
60°	14306.4	4885.0	1557.5	1252.2	1227.4	1279.0	1320.3	1382.2	1481.2	1627.6	1642.1
62.5°	13798.9	4882.9	1541.0	1225.4	1177.9	1241.9	1289.3	1361.5	1470.9	1662.7	1691.6
65°	12150.6	4437.4	1462.6	1184.1	1138.7	1208.9	1262.5	1347.1	1499.7	1815.4	1833.9
67.5°	9503.9	3636.9	1316.1	1126.4	1087.2	1175.9	1246.0	1345.0	1530.7	1850.4	1862.8
70°	6283.7	2721.0	1155.2	1060.3	1033.5	1136.7	1254.3	1415.2	1495.6	1776.2	1743.2
72.5°	3261.5	1910.3	1025.3	977.8	971.6	1101.6	1373.9	1406.9	1460.6	1671.0	1629.7
75°	1712.2	1326.5	911.8	887.1	897.4	1093.4	1621.5	1369.8	1415.2	1598.8	1677.2
77.5°	1048.0	1070.7	814.9	804.5	825.2	1068.6	1619.4	1322.3	1349.2	1470.9	1557.5
80°	701.4	868.5	740.6	742.7	757.1	977.8	1454.4	1248.1	1268.7	1390.4	1479.1
82.5°	443.5	513.7	672.5	707.6	689.0	806.6	1235.7	1136.7	1165.6	1590.5	1681.3
85°	224.9	321.8	583.8	680.8	620.9	565.2	1002.6	996.4	1010.8	1147.0	1198.6
87.5°	103.1	177.4	455.9	594.1	468.3	352.8	728.2	738.5	796.3	814.9	814.9
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)