

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: P191799

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-RW-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5147 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 44
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

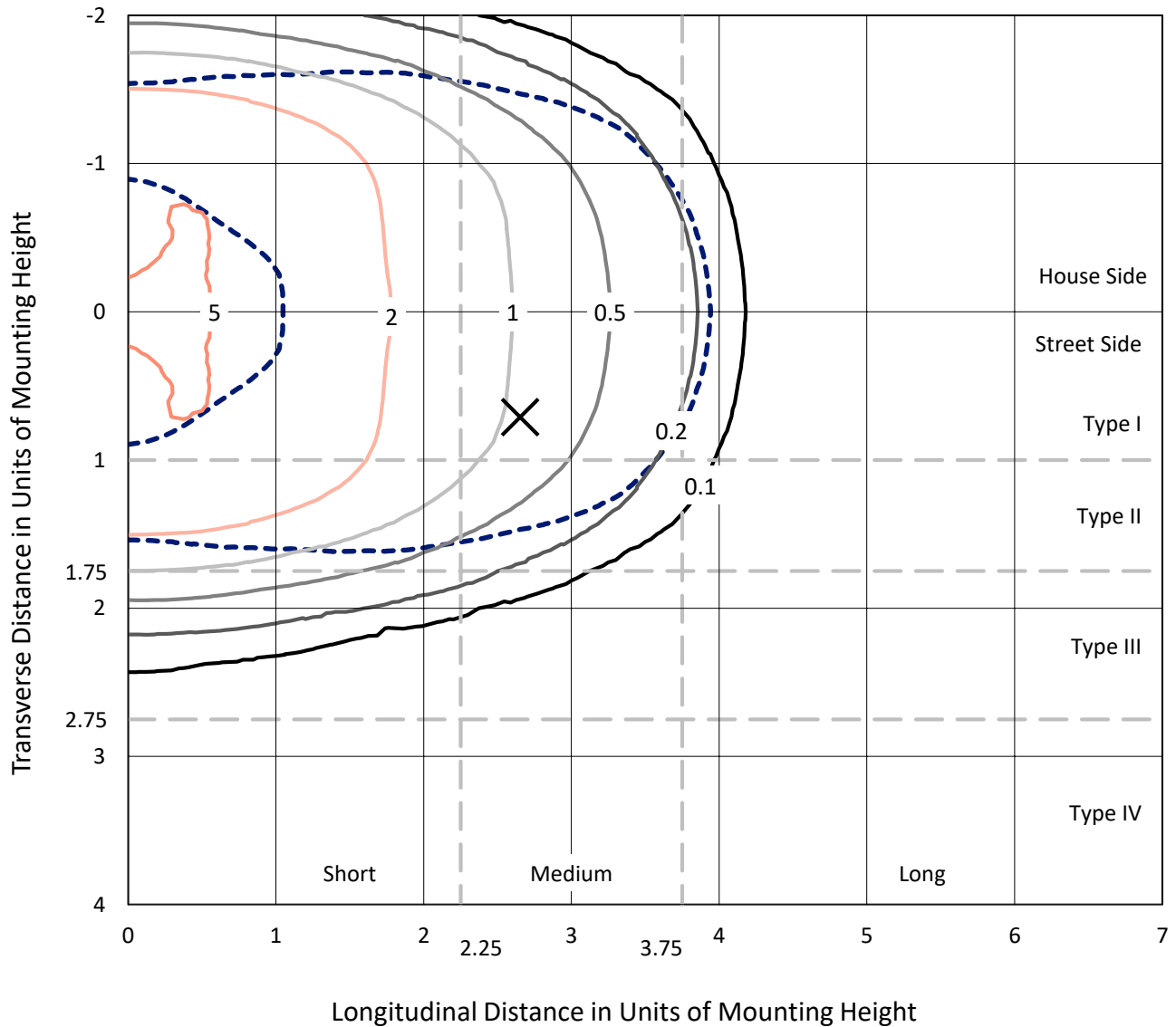


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Iso-Footcandle Lines of Horizontal Illumination

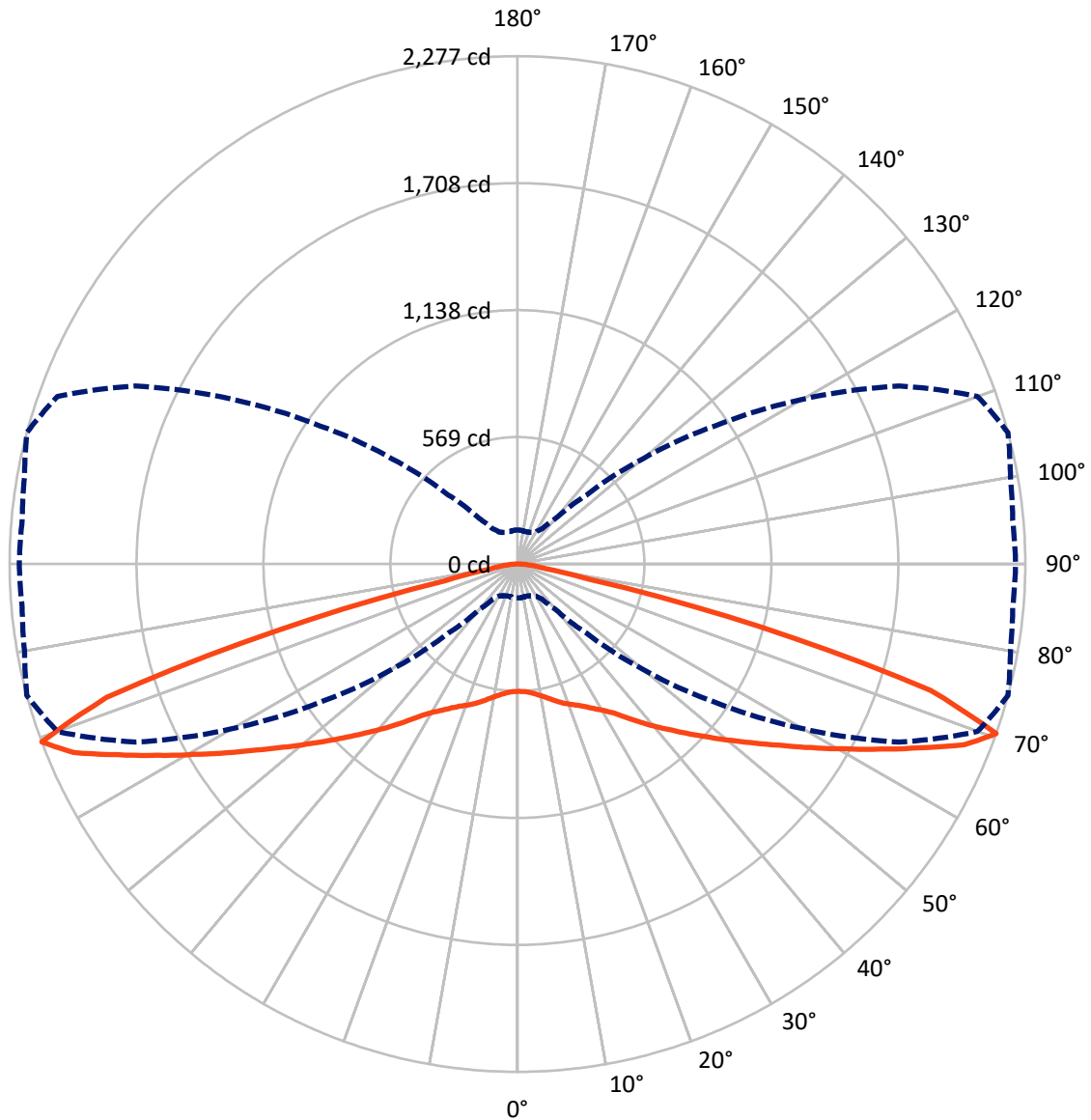
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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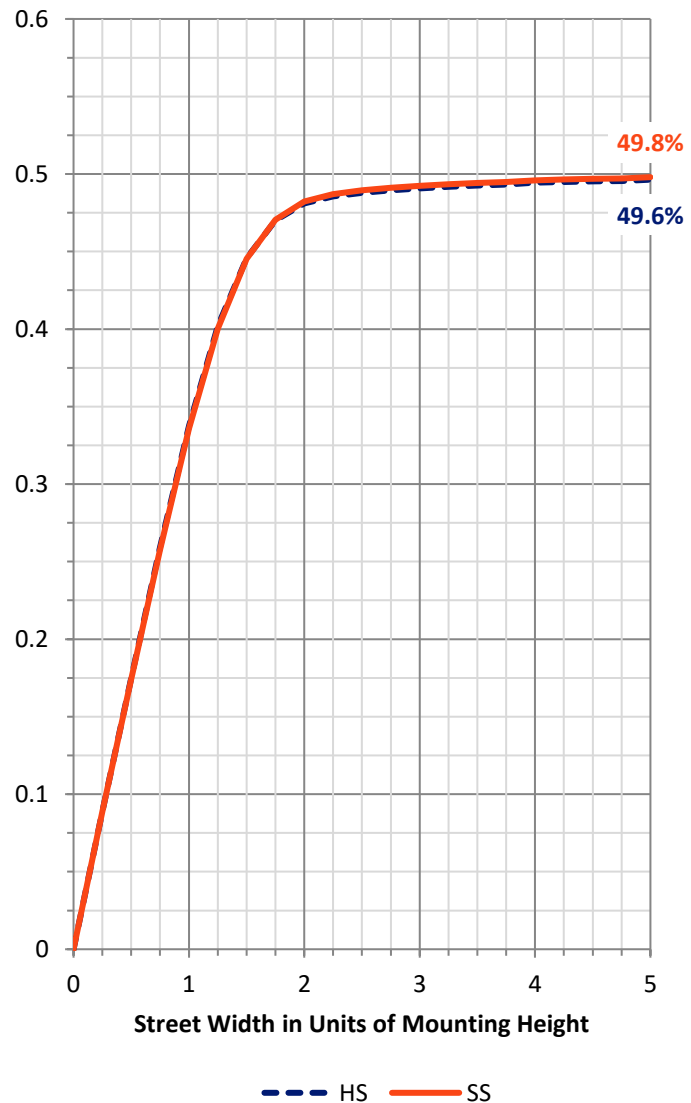
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2573.5	0.0	2573.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2573.5	0.0	2573.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5147.0	0.0	5147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.1
10°-20°	170.1	3.3
20°-30°	320.2	6.2
30°-40°	567.0	11.0
40°-50°	948.3	18.4
50°-60°	1321.4	25.7
60°-70°	1225.4	23.8
70°-80°	488.4	9.5
80°-90°	51.3	1.0
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°	5147.0	100.0
0°-180°	5147.0	100.0

Coefficient of Utilization



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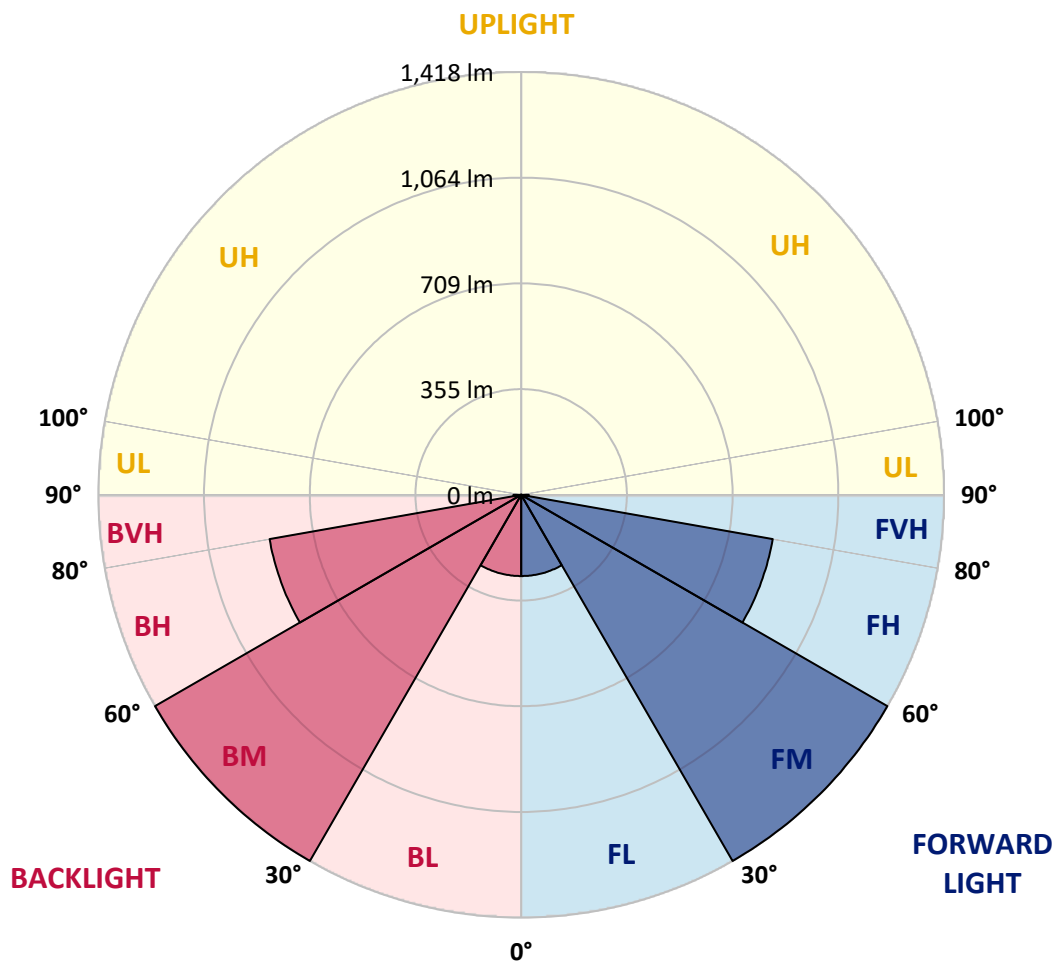
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.6	5.3			
FM	(30°-60°)	1418.4	27.6			
FH	(60°-80°)	856.9	16.6			G1/1800
FVH	(80°-90°)	25.7	0.5			G1/100
BL	(0°-30°)	272.6	5.3	B1/500		
BM	(30°-60°)	1418.4	27.6	B2/2500		
BH	(60°-80°)	856.9	16.6	B2/1000		G2/1000
BVH	(80°-90°)	25.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	570.9	570.9	570.9	570.9	570.9	570.9	570.9	570.9	570.9	570.9	570.9
2.5°	569.9	569.5	569.9	569.7	570.2	570.2	570.7	571.7	571.7	572.4	572.1
5°	564.4	564.1	564.8	565.6	566.3	567.8	569.2	571.4	573.1	574.3	575.5
7.5°	553.4	553.4	554.4	556.1	557.8	560.9	564.4	568.7	573.1	576.8	579.9
10°	544.4	544.9	546.1	549.0	551.9	556.8	561.4	567.8	573.8	579.9	584.8
12.5°	539.1	539.8	542.0	546.4	551.2	557.8	564.8	572.9	579.7	587.0	591.8
15°	540.8	541.2	544.4	549.8	556.1	564.4	573.8	583.3	591.4	599.1	605.7
17.5°	550.2	551.0	554.6	560.7	567.3	577.0	587.2	597.9	607.9	616.7	624.7
20°	567.3	568.0	572.6	579.2	587.0	597.0	607.2	618.4	629.5	638.8	647.8
22.5°	591.4	592.6	597.0	603.5	612.3	623.0	635.1	647.1	657.8	666.3	674.3
25°	623.0	625.7	629.8	637.1	646.3	656.1	669.2	681.4	691.6	699.6	705.4
27.5°	667.7	671.4	674.5	681.6	690.6	699.8	713.0	723.7	733.4	741.2	745.6
30°	727.1	730.7	733.9	740.7	749.0	757.7	770.1	779.6	785.7	791.8	791.6
32.5°	799.1	803.0	804.2	811.5	820.0	829.5	840.7	846.0	850.9	851.6	847.3
35°	879.6	881.6	886.4	896.2	905.9	913.7	924.4	927.0	927.0	923.4	913.7
37.5°	967.9	969.1	975.9	986.9	996.9	1004.9	1012.2	1017.5	1014.9	1007.1	990.8
40°	1064.7	1066.9	1076.7	1086.4	1097.6	1105.1	1112.9	1113.9	1111.2	1099.8	1077.6
42.5°	1157.2	1159.1	1168.8	1184.2	1198.8	1209.2	1216.5	1218.0	1209.5	1199.0	1171.5
45°	1236.7	1241.8	1254.5	1272.5	1293.6	1308.5	1318.4	1322.6	1315.0	1301.4	1269.6
47.5°	1299.7	1304.8	1322.8	1344.2	1370.5	1394.6	1411.1	1419.9	1417.9	1407.7	1372.9
50°	1345.9	1350.8	1370.3	1396.5	1427.2	1457.1	1485.3	1506.2	1513.5	1508.9	1477.1
52.5°	1351.3	1359.3	1382.2	1417.5	1457.3	1498.2	1538.4	1573.9	1597.9	1601.6	1578.0
55°	1276.6	1284.6	1316.3	1368.6	1427.9	1494.6	1558.8	1618.6	1666.1	1690.4	1678.0
57.5°	1100.5	1114.8	1148.2	1209.5	1296.8	1396.5	1498.9	1605.2	1701.8	1766.3	1778.7
60°	843.4	860.4	894.0	959.2	1056.5	1175.4	1312.1	1469.3	1639.8	1784.8	1871.4
62.5°	541.0	557.1	592.3	649.0	728.3	857.2	1003.9	1190.5	1419.6	1648.5	1854.8
65°	278.0	286.8	305.3	339.6	401.4	497.7	629.3	815.4	1077.4	1359.8	1658.0
67.5°	176.1	177.8	182.0	186.8	202.6	236.0	297.3	413.3	628.8	923.4	1272.5
70°	152.3	152.3	150.3	149.6	151.5	156.2	165.7	192.7	265.4	438.3	733.9
72.5°	139.4	137.9	134.5	131.8	131.4	131.4	133.3	137.4	149.1	178.6	287.3
75°	128.4	124.3	119.7	116.5	115.3	114.1	113.8	114.6	117.0	121.6	137.2
77.5°	115.1	109.7	104.4	101.2	99.7	98.0	96.6	94.9	93.7	95.1	101.9
80°	99.0	92.9	88.8	86.8	85.4	83.0	79.8	76.9	74.2	73.7	77.8
82.5°	79.8	72.7	73.0	73.7	71.0	67.6	64.2	61.1	56.4	54.0	56.4
85°	64.5	60.8	59.1	63.7	59.8	54.7	49.4	43.8	36.5	30.7	33.3
87.5°	25.1	25.1	37.5	57.7	51.8	42.3	36.2	30.9	19.2	14.8	15.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	570.9	570.9	570.9	570.9	570.9	570.9	570.9	570.9
2.5°	571.9	572.4	572.1	571.9	571.9	571.7	571.9	571.9
5°	576.3	577.5	577.5	578.0	578.0	578.2	578.5	578.2
7.5°	582.8	585.0	586.5	588.2	588.4	588.7	589.2	588.7
10°	589.4	593.8	597.0	600.1	601.6	602.1	602.5	602.5
12.5°	597.7	603.8	609.4	615.0	617.6	619.1	619.1	620.1
15°	611.3	617.4	624.0	631.5	636.1	638.5	639.3	639.3
17.5°	630.5	635.9	641.5	648.8	654.6	657.8	658.5	658.3
20°	652.9	658.0	661.2	665.8	670.9	674.5	675.5	675.5
22.5°	678.4	681.4	681.8	683.3	687.4	692.3	694.5	695.0
25°	706.7	707.4	705.4	705.4	708.1	712.7	714.9	715.2
27.5°	743.1	739.5	734.6	732.9	734.6	740.0	742.7	743.6
30°	788.6	779.9	768.7	762.6	761.6	768.7	773.6	774.3
32.5°	840.7	828.0	813.2	800.8	797.6	802.0	807.9	807.6
35°	902.5	887.4	869.4	853.6	846.3	850.7	858.9	859.9
37.5°	973.8	954.1	933.4	913.4	902.0	903.2	912.0	914.9
40°	1053.3	1027.8	1001.7	975.0	958.7	955.5	966.2	967.9
42.5°	1138.4	1105.6	1072.8	1039.7	1018.8	1013.9	1026.3	1025.6
45°	1229.2	1187.3	1148.9	1112.4	1087.6	1080.3	1090.5	1090.5
47.5°	1326.7	1275.1	1229.4	1188.1	1161.1	1150.6	1160.3	1161.1
50°	1430.1	1375.4	1321.6	1275.6	1243.3	1229.9	1242.6	1244.5
52.5°	1533.0	1479.7	1425.5	1372.9	1333.8	1317.5	1332.1	1338.4
55°	1637.4	1585.1	1533.2	1481.9	1435.5	1416.2	1431.8	1439.8
57.5°	1747.6	1699.1	1649.8	1597.9	1553.2	1523.3	1539.8	1550.5
60°	1876.7	1835.4	1784.0	1726.9	1681.6	1651.2	1660.7	1670.2
62.5°	1978.9	1994.9	1951.4	1885.2	1827.1	1788.2	1797.4	1807.4
65°	1929.5	2094.2	2132.9	2066.0	1985.5	1924.9	1921.0	1926.1
67.5°	1612.8	1932.7	2166.0	2229.7	2162.3	2078.1	2062.6	2070.1
70°	1078.8	1477.3	1888.9	2195.4	2276.9	2244.3	2229.0	2233.6
72.5°	518.1	860.4	1281.5	1688.9	1937.0	2050.9	2087.4	2105.1
75°	189.5	341.5	617.6	930.7	1123.6	1300.7	1416.2	1463.4
77.5°	114.3	137.9	197.3	297.0	336.4	376.6	361.0	368.8
80°	84.7	95.6	108.2	121.6	126.0	126.0	121.1	117.2
82.5°	59.4	66.4	72.5	79.8	81.7	78.1	64.2	51.1
85°	38.2	41.4	44.0	48.7	47.4	45.2	30.4	27.0
87.5°	17.5	19.9	20.9	23.1	22.1	21.2	15.1	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)