

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: P300537

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300537
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: GLNA-AF-01-LED-E1-RW-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5181.2 lumens
Efficiency: N/A
Efficacy: 87.8 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): 59
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



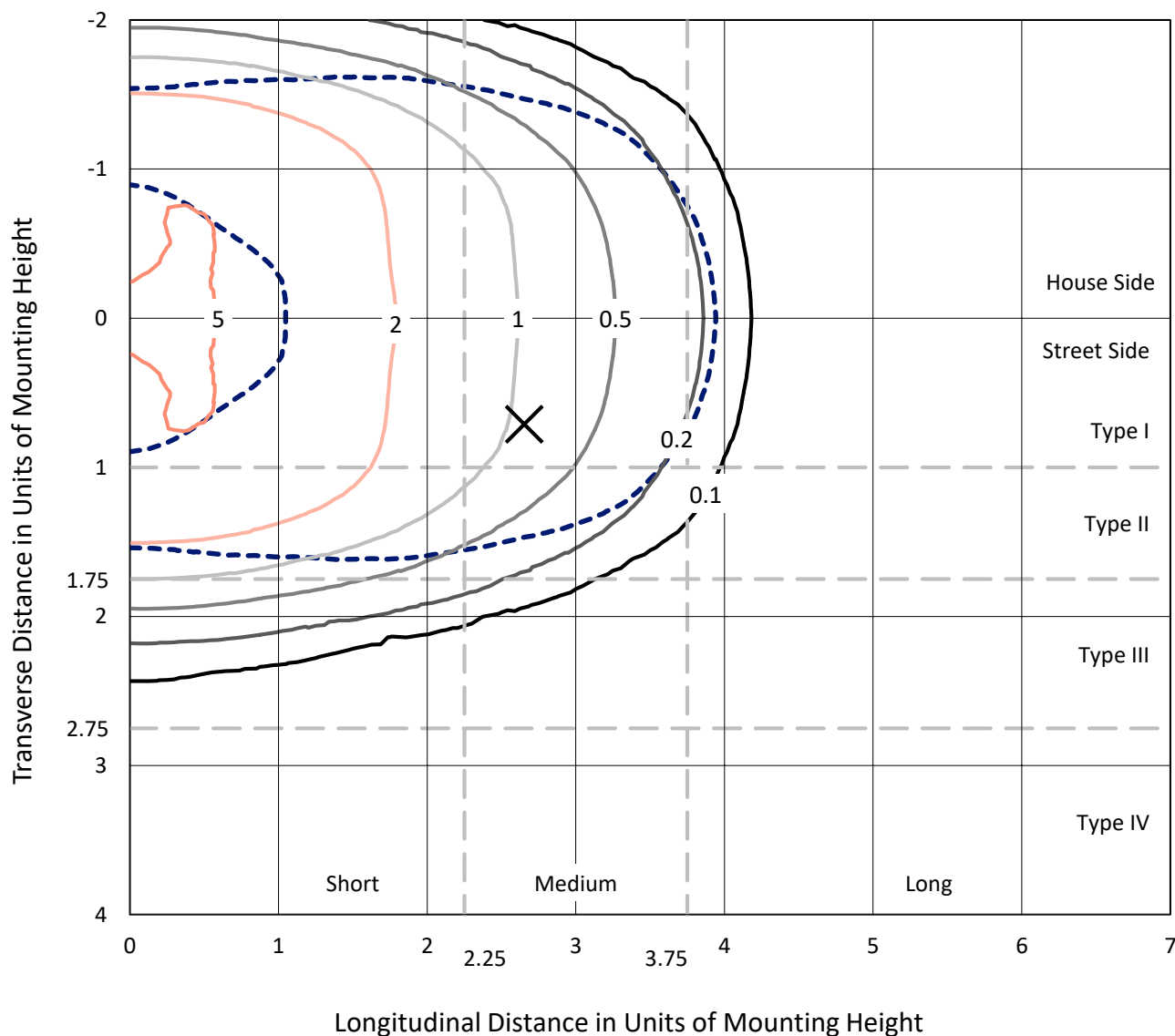
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

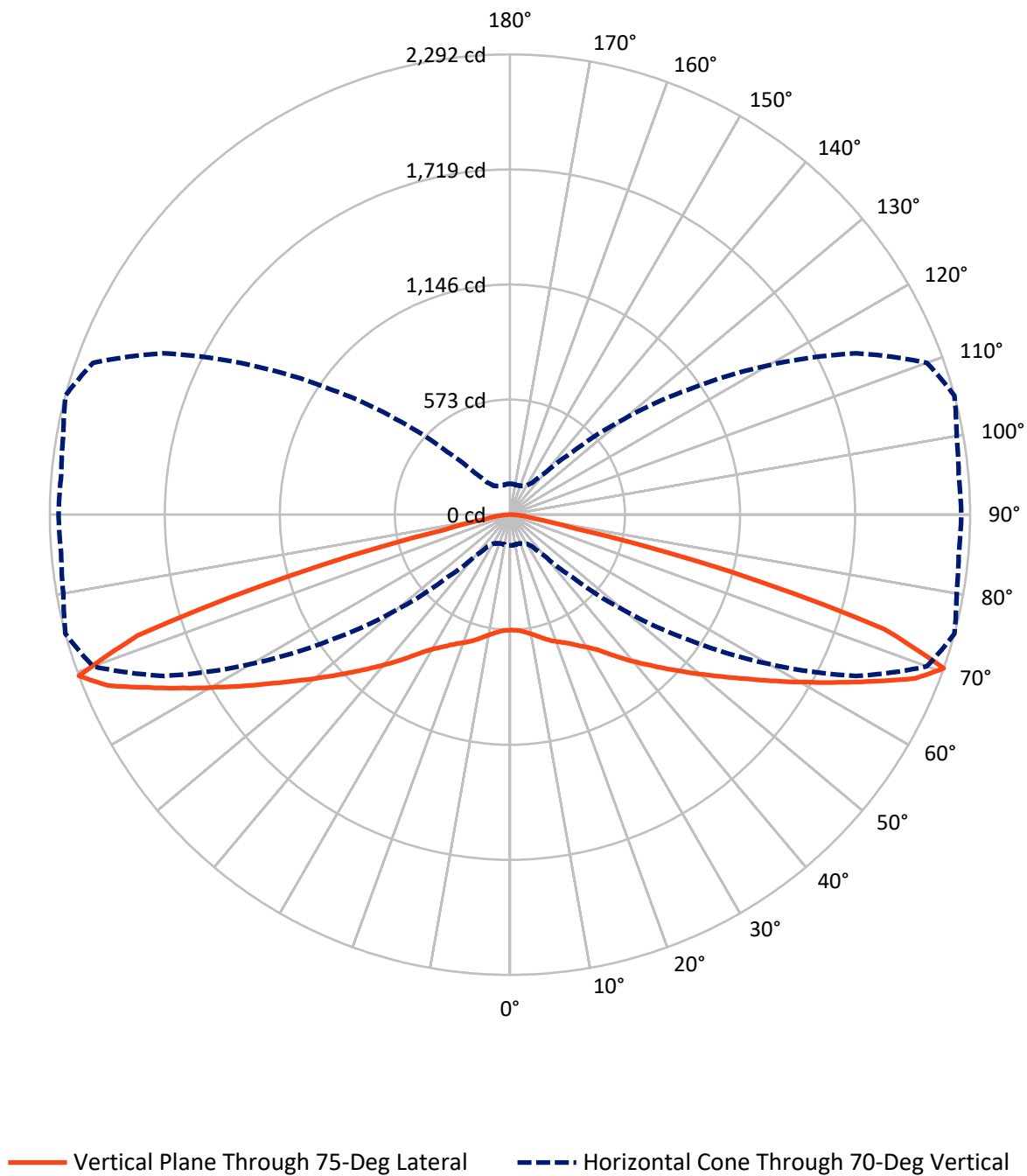


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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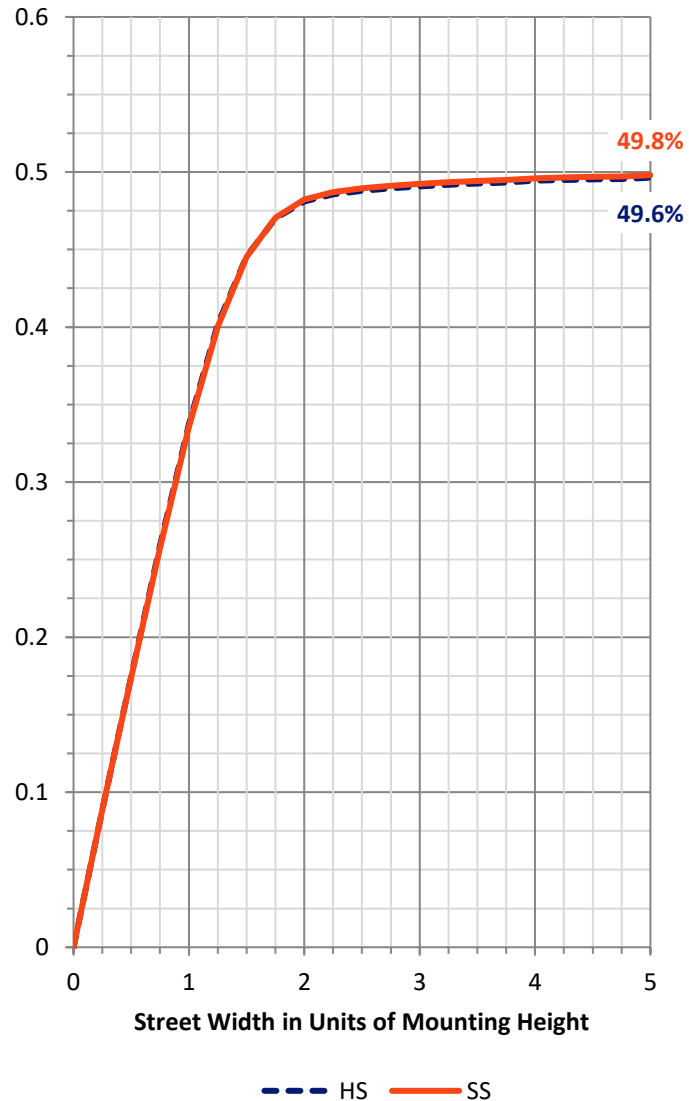
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.6	0.0	2590.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2590.6	0.0	2590.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5181.2	0.0	5181.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.1
10°-20°	171.3	3.3
20°-30°	322.3	6.2
30°-40°	570.8	11.0
40°-50°	954.6	18.4
50°-60°	1330.2	25.7
60°-70°	1233.6	23.8
70°-80°	491.6	9.5
80°-90°	51.7	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°	5181.2	100.0
0°-180°	5181.2	100.0

Coefficient of Utilization



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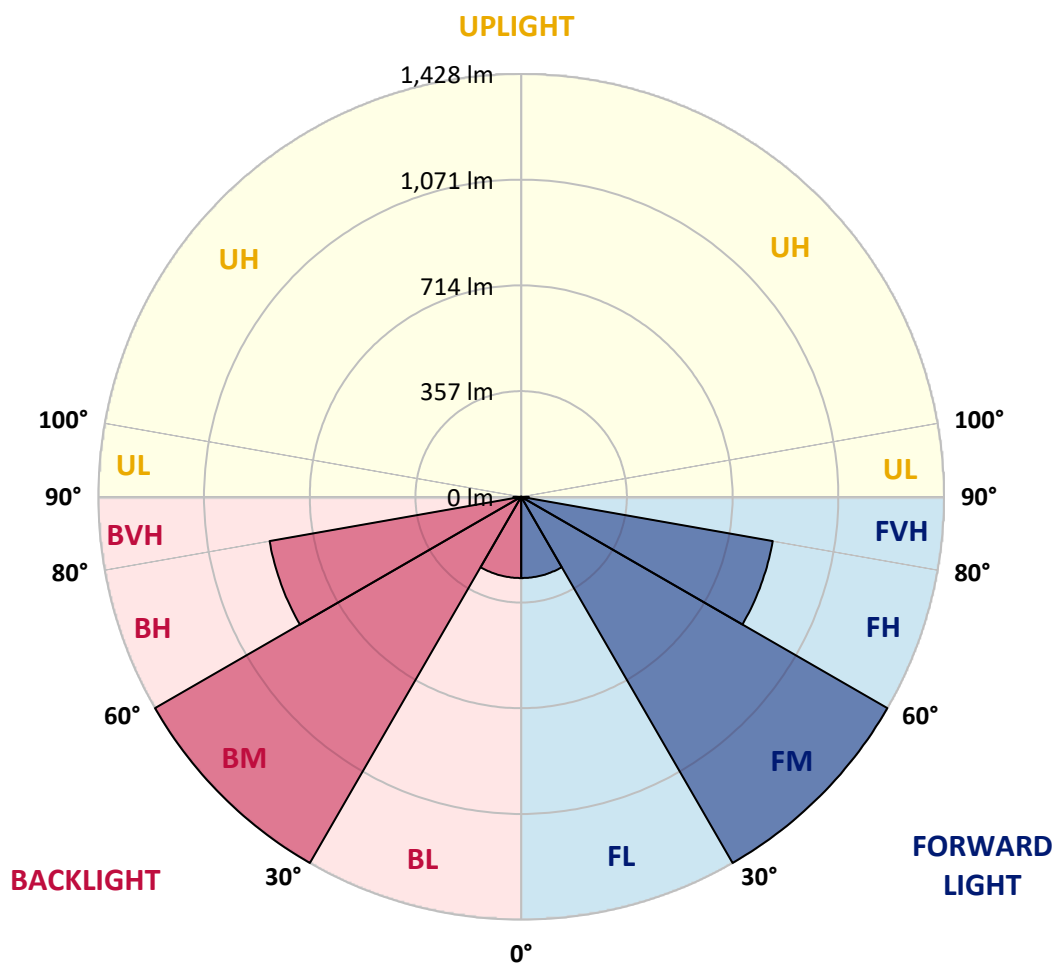
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.4	5.3			
FM	(30°-60°)	1427.8	27.6			
FH	(60°-80°)	862.6	16.6			G1/1800
FVH	(80°-90°)	25.8	0.5			G1/100
BL	(0°-30°)	274.4	5.3	B1/500		
BM	(30°-60°)	1427.8	27.6	B2/2500		
BH	(60°-80°)	862.6	16.6	B2/1000		G2/1000
BVH	(80°-90°)	25.8	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°	574.7	574.7	574.7	574.7	574.7	574.7	574.7	574.7	574.7	574.7	574.7
2.5°	573.7	573.2	573.7	573.5	574.0	574.0	574.5	575.4	575.4	576.2	575.9
5°	568.1	567.9	568.6	569.3	570.1	571.5	573.0	575.2	576.9	578.1	579.4
7.5°	557.1	557.1	558.1	559.8	561.5	564.7	568.1	572.5	576.9	580.6	583.8
10°	548.0	548.5	549.7	552.7	555.6	560.5	565.2	571.5	577.7	583.8	588.7
12.5°	542.6	543.4	545.6	550.0	554.9	561.5	568.6	576.7	583.5	590.9	595.8
15°	544.4	544.8	548.0	553.4	559.8	568.1	577.7	587.2	595.3	603.1	609.7
17.5°	553.9	554.6	558.3	564.4	571.0	580.8	591.1	601.9	611.9	620.8	628.8
20°	571.0	571.8	576.4	583.0	590.9	600.9	611.2	622.5	633.7	643.0	652.1
22.5°	595.3	596.5	600.9	607.5	616.3	627.1	639.4	651.4	662.1	670.7	678.8
25°	627.1	629.8	634.0	641.3	650.6	660.4	673.6	685.9	696.2	704.3	710.1
27.5°	672.2	675.8	679.0	686.1	695.2	704.5	717.7	728.5	738.3	746.1	750.5
30°	731.9	735.6	738.8	745.6	754.0	762.8	775.3	784.8	790.9	797.1	796.8
32.5°	804.4	808.3	809.5	816.9	825.5	835.0	846.3	851.7	856.6	857.3	852.9
35°	885.5	887.4	892.3	902.1	911.9	919.7	930.5	933.2	933.2	929.5	919.7
37.5°	974.3	975.6	982.4	993.4	1003.5	1011.6	1018.9	1024.3	1021.6	1013.8	997.4
40°	1071.8	1074.0	1083.8	1093.6	1104.9	1112.5	1120.3	1121.3	1118.6	1107.1	1084.8
42.5°	1164.9	1166.8	1176.6	1192.0	1206.7	1217.3	1224.6	1226.1	1217.5	1207.0	1179.3
45°	1244.9	1250.1	1262.8	1280.9	1302.2	1317.2	1327.2	1331.4	1323.8	1310.1	1278.0
47.5°	1308.4	1313.5	1331.6	1353.2	1379.6	1403.9	1420.5	1429.3	1427.4	1417.1	1382.1
50°	1354.9	1359.8	1379.4	1405.8	1436.7	1466.8	1495.2	1516.2	1523.6	1518.9	1486.9
52.5°	1360.3	1368.3	1391.4	1426.9	1467.0	1508.2	1548.6	1584.3	1608.6	1612.2	1588.5
55°	1285.1	1293.2	1325.0	1377.6	1437.4	1504.5	1569.1	1629.4	1677.1	1701.6	1689.1
57.5°	1107.8	1122.2	1155.8	1217.5	1305.4	1405.8	1508.9	1615.9	1713.1	1778.0	1790.5
60°	849.0	866.1	899.9	965.5	1063.5	1183.2	1320.8	1479.0	1650.7	1796.6	1883.8
62.5°	544.6	560.8	596.3	653.3	733.1	862.9	1010.6	1198.4	1429.1	1659.5	1867.1
65°	279.9	288.7	307.3	341.8	404.0	501.0	633.5	820.8	1084.5	1368.8	1669.0
67.5°	177.3	179.0	183.2	188.1	204.0	237.5	299.2	416.0	633.0	929.5	1280.9
70°	153.3	153.3	151.3	150.6	152.6	157.2	166.8	193.9	267.2	441.3	738.8
72.5°	140.3	138.8	135.4	132.7	132.2	132.2	134.2	138.4	150.1	179.7	289.2
75°	129.3	125.1	120.5	117.3	116.1	114.8	114.6	115.3	117.8	122.4	138.1
77.5°	115.8	110.4	105.1	101.9	100.4	98.7	97.2	95.5	94.3	95.7	102.6
80°	99.7	93.5	89.4	87.4	86.0	83.5	80.3	77.4	74.7	74.2	78.4
82.5°	80.3	73.2	73.5	74.2	71.5	68.1	64.6	61.5	56.8	54.4	56.8
85°	64.9	61.2	59.5	64.2	60.2	55.1	49.7	44.1	36.7	30.9	33.5
87.5°	25.2	25.2	37.7	58.0	52.2	42.6	36.5	31.1	19.3	14.9	15.2
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°	574.7	574.7	574.7	574.7	574.7	574.7	574.7	574.7
2.5°	575.7	576.2	575.9	575.7	575.7	575.4	575.7	575.7
5°	580.1	581.3	581.3	581.8	581.8	582.1	582.3	582.1
7.5°	586.7	588.9	590.4	592.1	592.3	592.6	593.1	592.6
10°	593.3	597.7	600.9	604.1	605.6	606.1	606.5	606.5
12.5°	601.7	607.8	613.4	619.0	621.7	623.2	623.2	624.2
15°	615.4	621.5	628.1	635.7	640.3	642.8	643.5	643.5
17.5°	634.7	640.1	645.7	653.1	659.0	662.1	662.9	662.6
20°	657.2	662.4	665.6	670.2	675.4	679.0	680.0	680.0
22.5°	682.9	685.9	686.4	687.8	692.0	696.9	699.1	699.6
25°	711.4	712.1	710.1	710.1	712.8	717.5	719.7	719.9
27.5°	748.1	744.4	739.5	737.8	739.5	744.9	747.6	748.6
30°	793.9	785.1	773.8	767.7	766.7	773.8	778.7	779.4
32.5°	846.3	833.5	818.6	806.1	802.9	807.3	813.2	813.0
35°	908.5	893.3	875.2	859.3	851.9	856.3	864.6	865.6
37.5°	980.2	960.4	939.6	919.5	908.0	909.2	918.0	921.0
40°	1060.3	1034.6	1008.4	981.4	965.0	961.9	972.6	974.3
42.5°	1146.0	1112.9	1079.9	1046.6	1025.5	1020.6	1033.1	1032.4
45°	1237.3	1195.2	1156.5	1119.8	1094.8	1087.5	1097.8	1097.8
47.5°	1335.5	1283.6	1237.6	1196.0	1168.8	1158.2	1168.0	1168.8
50°	1439.6	1384.5	1330.4	1284.1	1251.5	1238.1	1250.8	1252.8
52.5°	1543.2	1489.6	1434.9	1382.1	1342.6	1326.2	1340.9	1347.3
55°	1648.2	1595.6	1543.4	1491.8	1445.0	1425.6	1441.3	1449.4
57.5°	1759.2	1710.4	1660.7	1608.6	1563.5	1533.4	1550.0	1560.8
60°	1889.2	1847.6	1795.9	1738.3	1692.8	1662.2	1671.7	1681.3
62.5°	1992.0	2008.2	1964.4	1897.8	1839.2	1800.1	1809.4	1819.4
65°	1942.3	2108.1	2147.0	2079.7	1998.6	1937.7	1933.8	1938.9
67.5°	1623.5	1945.5	2180.3	2244.5	2176.7	2091.9	2076.3	2083.9
70°	1086.0	1487.1	1901.4	2210.0	2292.0	2259.2	2243.8	2248.4
72.5°	521.6	866.1	1290.0	1700.1	1949.9	2064.5	2101.2	2119.1
75°	190.8	343.8	621.7	936.9	1131.1	1309.3	1425.6	1473.1
77.5°	115.1	138.8	198.6	299.0	338.7	379.1	363.4	371.2
80°	85.2	96.2	109.0	122.4	126.8	126.8	121.9	118.0
82.5°	59.7	66.9	73.0	80.3	82.3	78.6	64.6	51.4
85°	38.4	41.6	44.3	49.0	47.8	45.5	30.6	27.2
87.5°	17.6	20.1	21.1	23.3	22.3	21.3	15.2	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)