

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: P300601

Luminaire Tested: **GLNA-AF-02-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300601
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-02-LED-E1-RW-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8708.2 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

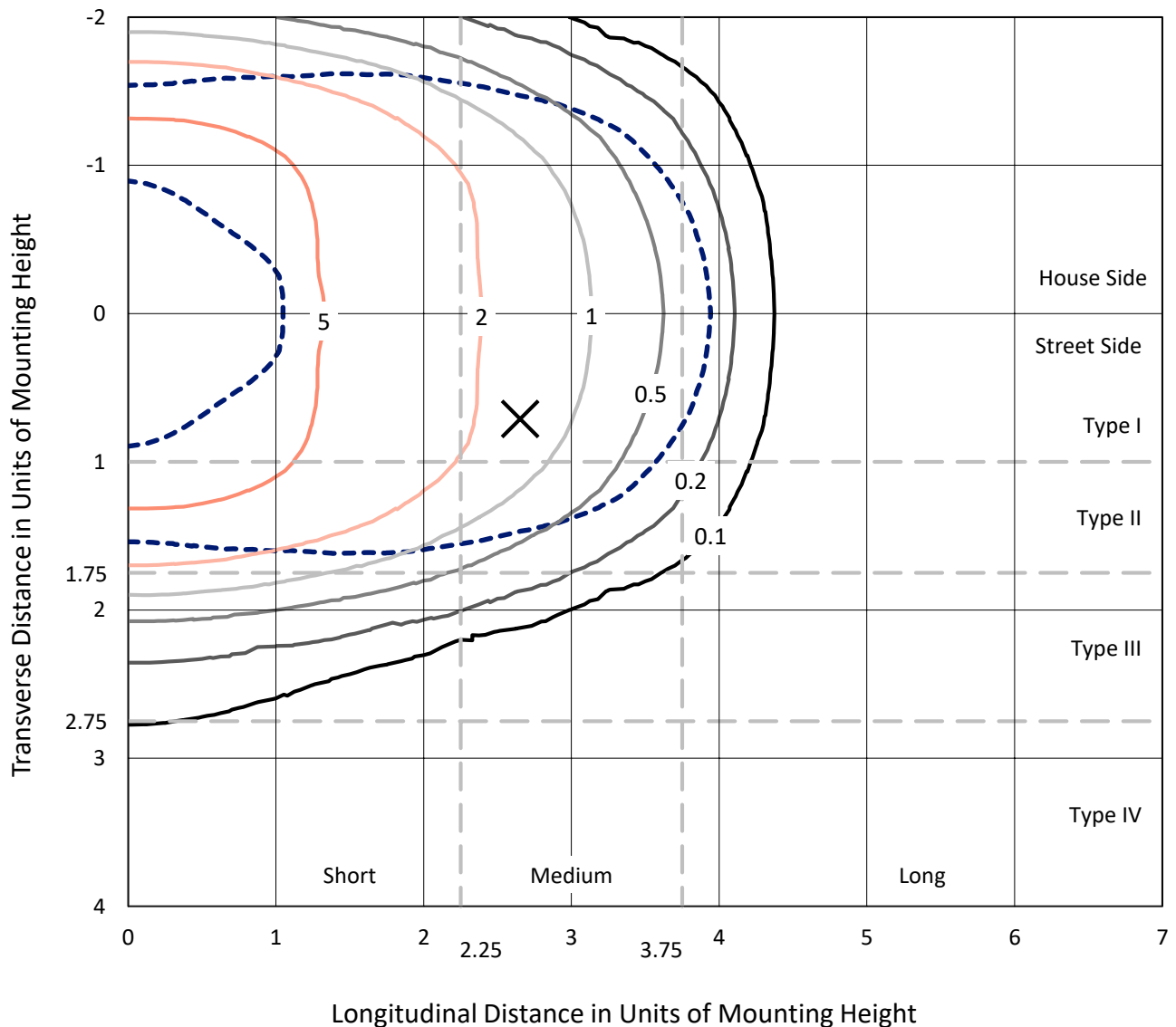
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

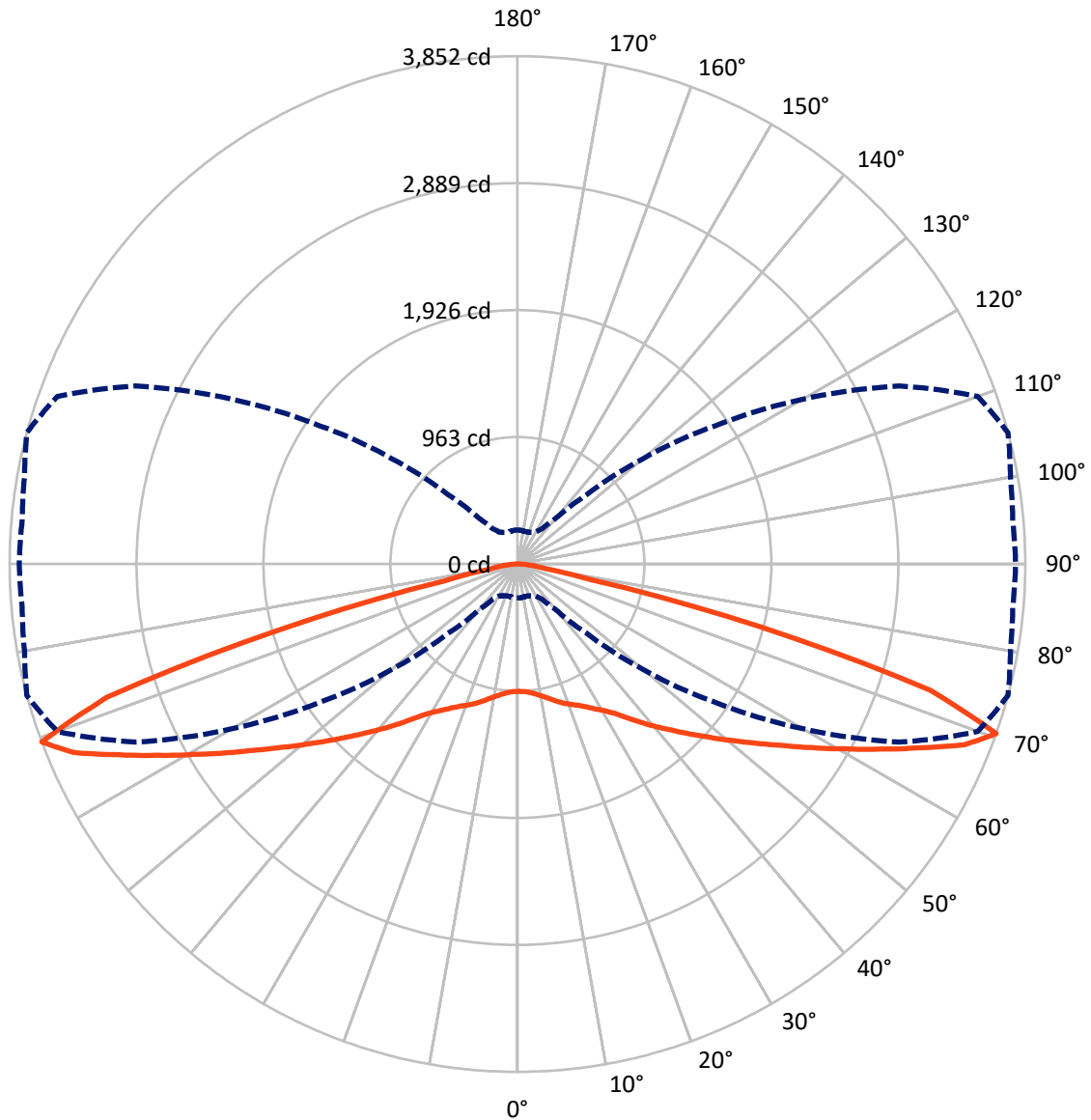
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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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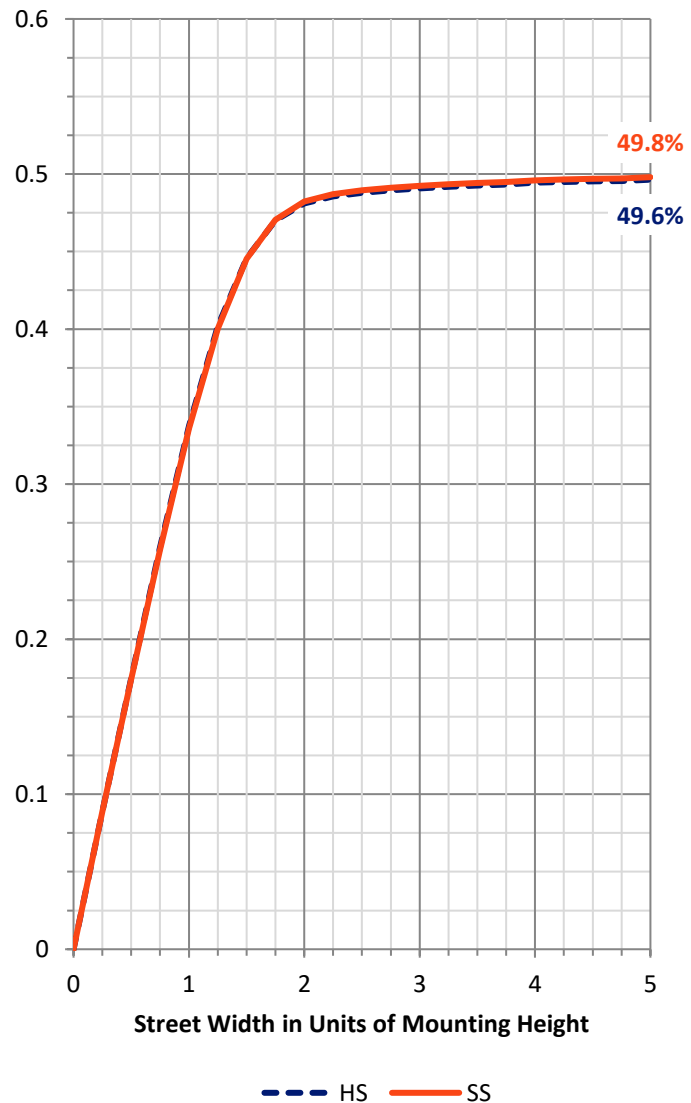
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4354.1	0.0	4354.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4354.1	0.0	4354.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8708.2	0.0	8708.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.1
10°-20°	287.8	3.3
20°-30°	541.8	6.2
30°-40°	959.4	11.0
40°-50°	1604.4	18.4
50°-60°	2235.7	25.7
60°-70°	2073.3	23.8
70°-80°	826.3	9.5
80°-90°	86.9	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°	8708.2	100.0
0°-180°	8708.2	100.0



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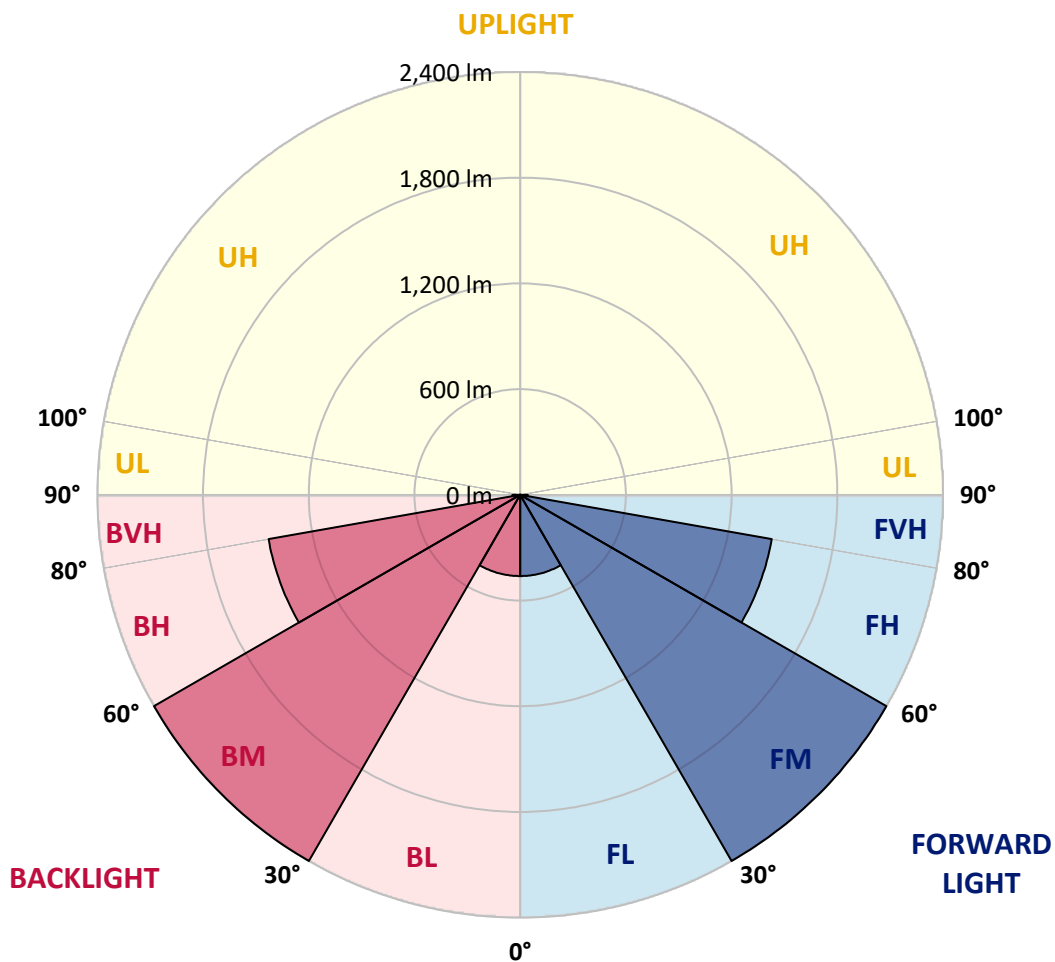
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.1	5.3			
FM	(30°-60°)	2399.8	27.6			
FH	(60°-80°)	1449.8	16.6			G1/1800
FVH	(80°-90°)	43.4	0.5			G1/100
BL	(0°-30°)	461.1	5.3	B1/500		
BM	(30°-60°)	2399.8	27.6	B2/2500		
BH	(60°-80°)	1449.8	16.6	B3/2500		G3/2500
BVH	(80°-90°)	43.4	0.5			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9
2.5°	964.3	963.5	964.3	963.9	964.7	964.7	965.5	967.2	967.2	968.4	968.0
5°	954.8	954.4	955.6	956.9	958.1	960.6	963.1	966.8	969.6	971.7	973.8
7.5°	936.3	936.3	938.0	940.8	943.7	949.1	954.8	962.2	969.6	975.8	981.2
10°	921.1	921.9	924.0	928.9	933.8	942.1	949.9	960.6	970.9	981.2	989.4
12.5°	912.0	913.3	917.0	924.4	932.6	943.7	955.6	969.2	980.8	993.1	1001.3
15°	914.9	915.7	921.1	930.1	940.8	954.8	970.9	986.9	1000.5	1013.7	1024.8
17.5°	931.0	932.2	938.4	948.7	959.8	976.2	993.5	1011.6	1028.5	1043.3	1056.9
20°	959.8	961.0	968.8	979.9	993.1	1010.0	1027.3	1046.2	1065.1	1080.8	1096.0
22.5°	1000.5	1002.6	1010.0	1021.1	1035.9	1054.0	1074.6	1094.8	1112.9	1127.3	1140.9
25°	1054.0	1058.5	1065.5	1077.9	1093.5	1110.0	1132.2	1152.8	1170.1	1183.7	1193.5
27.5°	1129.7	1135.9	1141.3	1153.2	1168.4	1184.1	1206.3	1224.4	1240.9	1254.0	1261.4
30°	1230.2	1236.3	1241.7	1253.2	1267.2	1282.0	1303.0	1319.1	1329.3	1339.6	1339.2
32.5°	1352.0	1358.6	1360.6	1373.0	1387.4	1403.4	1422.4	1431.4	1439.6	1440.9	1433.5
35°	1488.2	1491.5	1499.7	1516.2	1532.7	1545.8	1563.9	1568.5	1568.5	1562.3	1545.8
37.5°	1637.6	1639.7	1651.2	1669.7	1686.6	1700.2	1712.5	1721.6	1717.0	1703.9	1676.3
40°	1801.4	1805.1	1821.6	1838.0	1857.0	1869.7	1882.9	1884.5	1880.0	1860.7	1823.2
42.5°	1957.8	1961.1	1977.6	2003.5	2028.2	2045.9	2058.2	2060.7	2046.3	2028.6	1982.1
45°	2092.4	2101.0	2122.4	2152.9	2188.7	2213.8	2230.7	2237.7	2224.9	2201.9	2147.9
47.5°	2199.0	2207.6	2238.1	2274.3	2318.7	2359.5	2387.5	2402.3	2399.0	2381.7	2322.9
50°	2277.2	2285.4	2318.3	2362.8	2414.6	2465.3	2513.0	2548.4	2560.7	2552.9	2499.0
52.5°	2286.2	2299.8	2338.5	2398.2	2465.7	2534.8	2602.7	2662.8	2703.6	2709.7	2669.8
55°	2159.9	2173.5	2227.0	2315.5	2415.9	2528.6	2637.3	2738.5	2818.8	2860.0	2839.0
57.5°	1861.9	1886.2	1942.6	2046.3	2194.0	2362.8	2536.1	2715.9	2879.3	2988.4	3009.3
60°	1426.9	1455.7	1512.5	1622.8	1787.4	1988.7	2220.0	2485.8	2774.3	3019.6	3166.2
62.5°	915.3	942.5	1002.2	1098.0	1232.2	1450.3	1698.5	2014.2	2401.9	2789.2	3138.2
65°	470.4	485.2	516.5	574.5	679.1	842.1	1064.7	1379.6	1822.8	2300.6	2805.2
67.5°	298.0	300.9	307.8	316.1	342.8	399.2	502.9	699.2	1063.9	1562.3	2152.9
70°	257.6	257.6	254.3	253.1	256.4	264.2	280.3	326.0	449.0	741.6	1241.7
72.5°	235.8	233.4	227.6	223.1	222.2	222.2	225.5	232.5	252.3	302.1	486.1
75°	217.3	210.3	202.5	197.1	195.1	193.0	192.6	193.8	198.0	205.8	232.1
77.5°	194.7	185.6	176.6	171.2	168.7	165.9	163.4	160.5	158.5	160.9	172.4
80°	167.5	157.2	150.2	146.9	144.5	140.3	135.0	130.1	125.5	124.7	131.7
82.5°	135.0	123.1	123.5	124.7	120.2	114.4	108.7	103.3	95.5	91.4	95.5
85°	109.1	102.9	100.0	107.8	101.2	92.6	83.5	74.1	61.7	51.9	56.4
87.5°	42.4	42.4	63.4	97.5	87.7	71.6	61.3	52.3	32.5	25.1	25.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9
2.5°	967.6	968.4	968.0	967.6	967.6	967.2	967.6	967.6
5°	975.0	977.1	977.1	977.9	977.9	978.3	978.7	978.3
7.5°	986.1	989.8	992.3	995.2	995.6	996.0	996.8	996.0
10°	997.2	1004.6	1010.0	1015.3	1017.8	1018.6	1019.4	1019.4
12.5°	1011.2	1021.5	1031.0	1040.4	1045.0	1047.4	1047.4	1049.1
15°	1034.3	1044.5	1055.7	1068.4	1076.2	1080.4	1081.6	1081.6
17.5°	1066.8	1075.8	1085.3	1097.6	1107.5	1112.9	1114.1	1113.7
20°	1104.6	1113.3	1118.6	1126.4	1135.1	1141.3	1142.9	1142.9
22.5°	1147.8	1152.8	1153.6	1156.1	1163.1	1171.3	1175.0	1175.8
25°	1195.6	1196.8	1193.5	1193.5	1198.1	1205.9	1209.6	1210.0
27.5°	1257.3	1251.2	1242.9	1240.0	1242.9	1252.0	1256.5	1258.1
30°	1334.3	1319.5	1300.5	1290.2	1288.6	1300.5	1308.8	1310.0
32.5°	1422.4	1401.0	1375.9	1354.9	1349.5	1356.9	1366.8	1366.4
35°	1526.9	1501.4	1470.9	1444.2	1431.8	1439.2	1453.2	1454.9
37.5°	1647.5	1614.1	1579.2	1545.4	1526.1	1528.1	1542.9	1547.9
40°	1782.1	1738.9	1694.8	1649.5	1622.0	1616.6	1634.7	1637.6
42.5°	1926.1	1870.6	1815.0	1759.0	1723.6	1715.4	1736.4	1735.1
45°	2079.6	2008.8	1943.8	1882.1	1840.1	1827.8	1845.0	1845.0
47.5°	2244.7	2157.4	2080.0	2010.1	1964.4	1946.7	1963.2	1964.4
50°	2419.6	2327.0	2236.0	2158.2	2103.5	2080.9	2102.3	2105.6
52.5°	2593.7	2503.5	2411.8	2322.9	2256.6	2229.0	2253.7	2264.4
55°	2770.2	2681.7	2594.1	2507.2	2428.6	2396.1	2422.5	2436.0
57.5°	2956.7	2874.8	2791.2	2703.6	2627.8	2577.2	2605.2	2623.3
60°	3175.2	3105.2	3018.4	2921.7	2845.1	2793.7	2809.7	2825.8
62.5°	3348.1	3375.2	3301.6	3189.6	3091.2	3025.4	3041.0	3057.9
65°	3264.5	3543.1	3608.6	3495.4	3359.2	3256.7	3250.1	3258.8
67.5°	2728.7	3269.9	3664.6	3772.4	3658.4	3516.0	3489.6	3502.4
70°	1825.3	2499.4	3195.8	3714.4	3852.2	3797.1	3771.2	3779.0
72.5°	876.6	1455.7	2168.1	2857.5	3277.3	3469.9	3531.6	3561.7
75°	320.6	577.8	1045.0	1574.6	1901.0	2200.6	2396.1	2476.0
77.5°	193.4	233.4	333.8	502.5	569.2	637.1	610.8	623.9
80°	143.2	161.7	183.1	205.8	213.2	213.2	205.0	198.4
82.5°	100.4	112.4	122.6	135.0	138.3	132.1	108.7	86.4
85°	64.6	70.0	74.5	82.3	80.3	76.6	51.4	45.7
87.5°	29.6	33.7	35.4	39.1	37.5	35.8	25.5	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)