

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: P300596

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300596
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 4961.4 lumens
Efficiency: N/A
Efficacy: 112.8 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

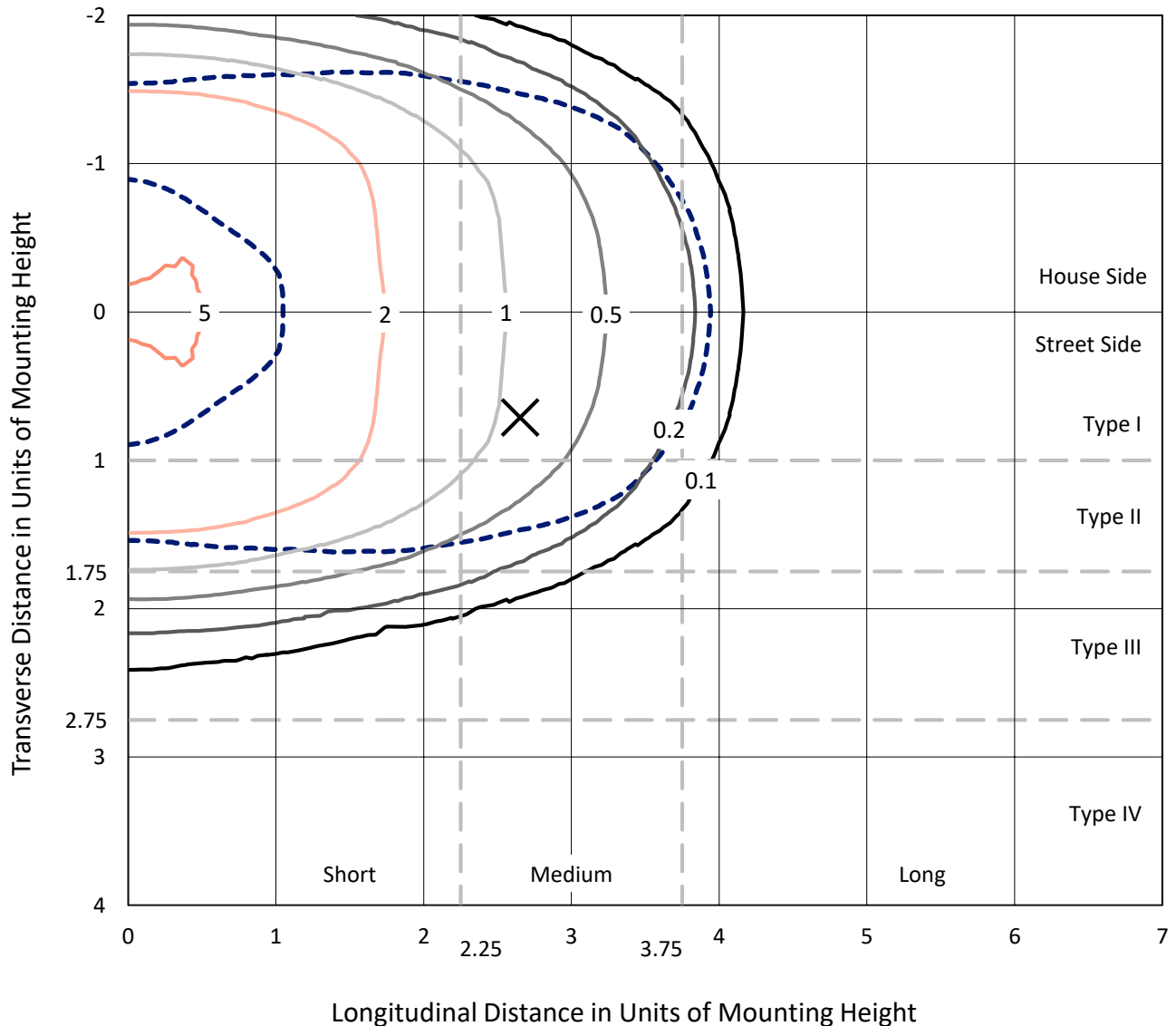
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

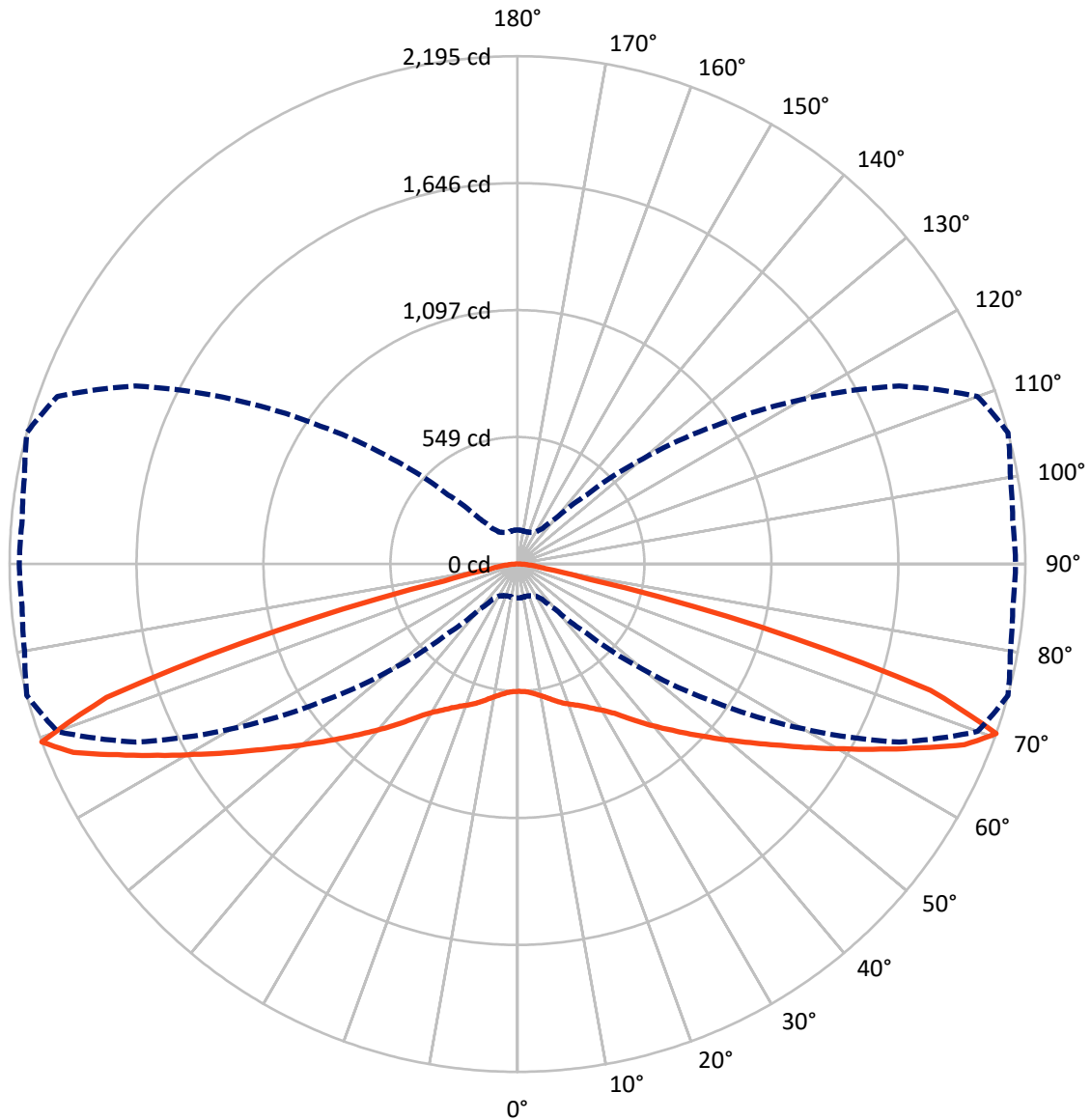
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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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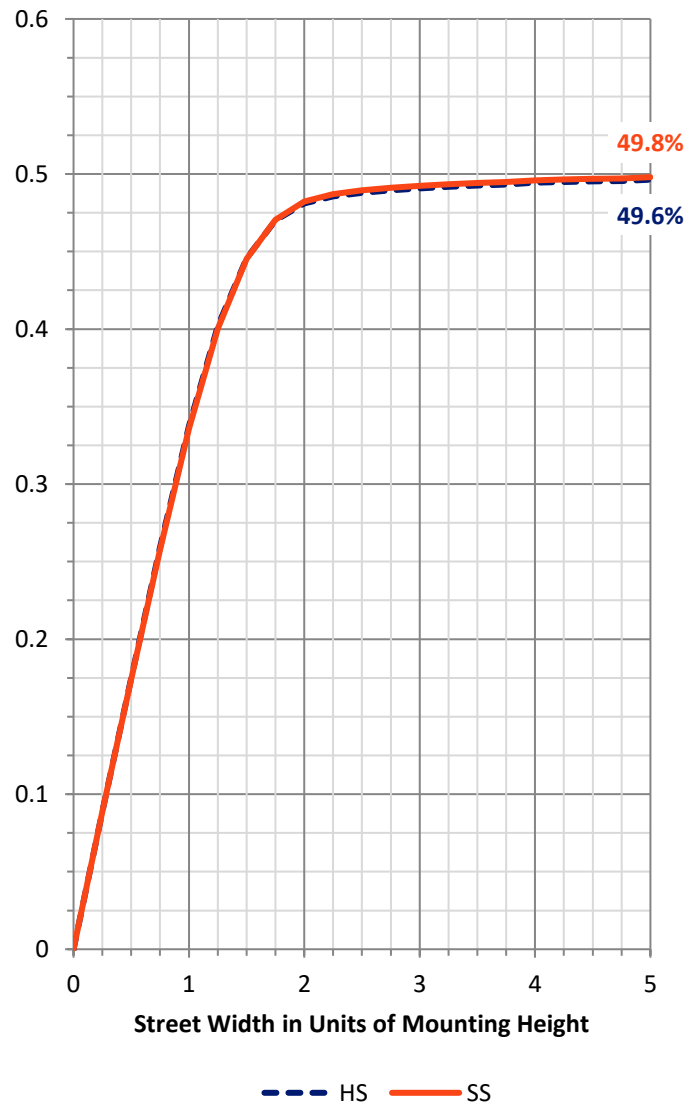
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2480.7	0.0	2480.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2480.7	0.0	2480.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4961.4	0.0	4961.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.1
10°-20°	164.0	3.3
20°-30°	308.7	6.2
30°-40°	546.6	11.0
40°-50°	914.1	18.4
50°-60°	1273.8	25.7
60°-70°	1181.2	23.8
70°-80°	470.8	9.5
80°-90°	49.5	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°	4961.4	100.0
0°-180°	4961.4	100.0



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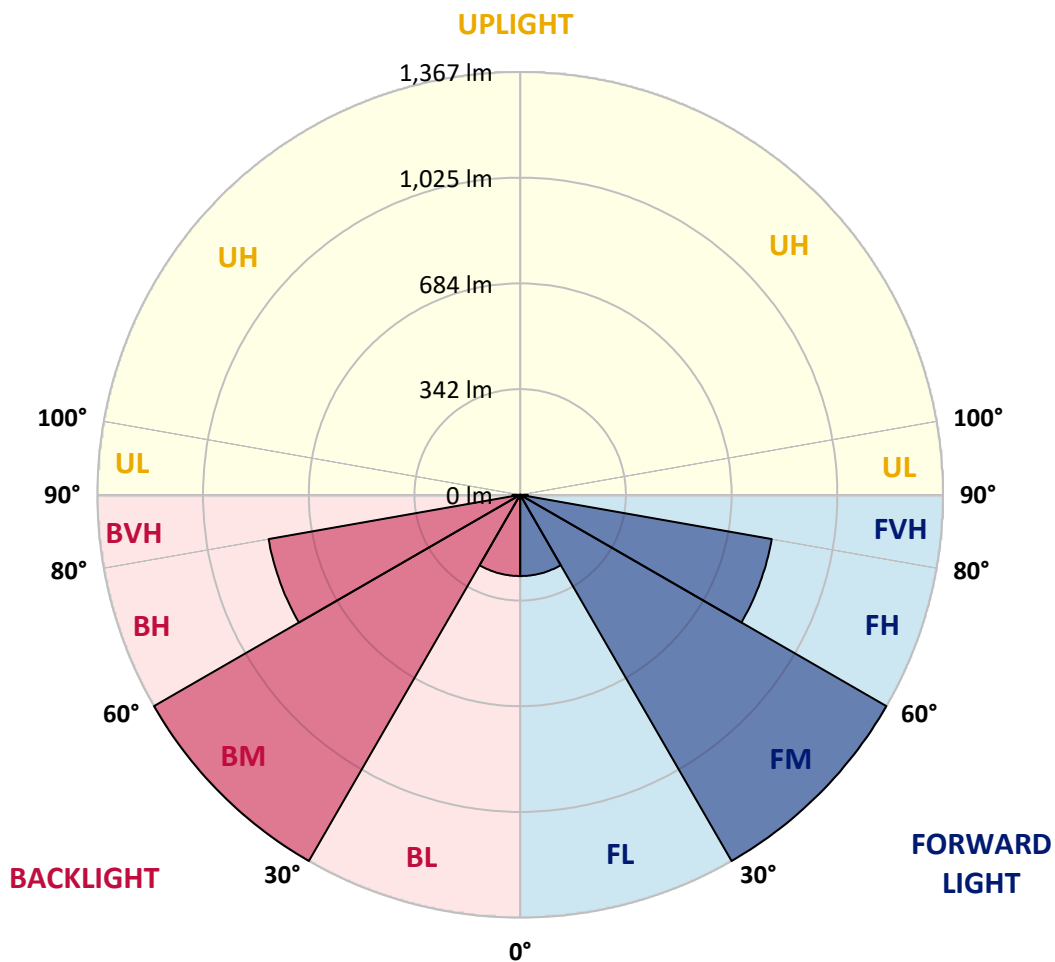
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.7	5.3			
FM	(30°-60°)	1367.2	27.6			
FH	(60°-80°)	826.0	16.6			G1/1800
FVH	(80°-90°)	24.7	0.5			G1/100
BL	(0°-30°)	262.7	5.3	B1/500		
BM	(30°-60°)	1367.2	27.6	B2/2500		
BH	(60°-80°)	826.0	16.6	B2/1000		G2/1000
BVH	(80°-90°)	24.7	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°	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3
2.5°	549.4	548.9	549.4	549.2	549.6	549.6	550.1	551.0	551.0	551.7	551.5
5°	544.0	543.8	544.5	545.2	545.9	547.3	548.7	550.8	552.4	553.6	554.8
7.5°	533.4	533.4	534.4	536.0	537.7	540.7	544.0	548.2	552.4	556.0	559.0
10°	524.8	525.2	526.4	529.2	532.0	536.7	541.2	547.3	553.1	559.0	563.7
12.5°	519.6	520.3	522.4	526.6	531.3	537.7	544.5	552.2	558.8	565.8	570.5
15°	521.3	521.7	524.8	529.9	536.0	544.0	553.1	562.3	570.0	577.5	583.9
17.5°	530.4	531.1	534.6	540.5	546.8	556.2	566.0	576.4	586.0	594.4	602.2
20°	546.8	547.5	552.0	558.3	565.8	575.4	585.3	596.1	606.8	615.8	624.4
22.5°	570.0	571.2	575.4	581.8	590.2	600.5	612.2	623.7	634.0	642.3	650.0
25°	600.5	603.1	607.1	614.1	623.0	632.4	645.1	656.8	666.6	674.4	680.0
27.5°	643.7	647.2	650.2	657.0	665.7	674.6	687.3	697.6	707.0	714.5	718.7
30°	700.9	704.4	707.4	714.0	722.0	730.4	742.4	751.5	757.4	763.2	763.0
32.5°	770.3	774.0	775.2	782.2	790.4	799.6	810.4	815.5	820.2	820.9	816.7
35°	847.9	849.8	854.5	863.8	873.2	880.7	891.0	893.6	893.6	890.1	880.7
37.5°	933.0	934.2	940.7	951.3	960.9	968.7	975.7	980.8	978.3	970.8	955.1
40°	1026.3	1028.4	1037.8	1047.2	1058.0	1065.3	1072.8	1073.7	1071.1	1060.1	1038.8
42.5°	1115.4	1117.3	1126.7	1141.5	1155.5	1165.6	1172.7	1174.1	1165.9	1155.8	1129.3
45°	1192.1	1197.0	1209.2	1226.6	1247.0	1261.3	1270.9	1274.9	1267.6	1254.5	1223.8
47.5°	1252.8	1257.8	1275.1	1295.8	1321.1	1344.3	1360.2	1368.7	1366.8	1357.0	1323.4
50°	1297.4	1302.1	1320.8	1346.2	1375.7	1404.6	1431.8	1451.9	1459.0	1454.5	1423.8
52.5°	1302.6	1310.3	1332.3	1366.3	1404.8	1444.2	1482.9	1517.1	1540.3	1543.8	1521.1
55°	1230.6	1238.3	1268.8	1319.2	1376.4	1440.7	1502.6	1560.3	1606.0	1629.4	1617.5
57.5°	1060.8	1074.6	1106.8	1165.9	1250.0	1346.2	1444.9	1547.4	1640.4	1702.6	1714.5
60°	813.0	829.4	861.7	924.6	1018.4	1133.0	1264.8	1416.3	1580.7	1720.4	1803.9
62.5°	521.5	537.0	571.0	625.6	702.0	826.3	967.7	1147.6	1368.4	1589.1	1787.9
65°	268.0	276.5	294.3	327.3	386.9	479.8	606.6	786.0	1038.5	1310.8	1598.2
67.5°	169.8	171.4	175.4	180.1	195.3	227.4	286.5	398.4	606.1	890.1	1226.6
70°	146.8	146.8	144.9	144.2	146.1	150.5	159.7	185.7	255.8	422.5	707.4
72.5°	134.4	133.0	129.7	127.1	126.6	126.6	128.5	132.5	143.7	172.1	276.9
75°	123.8	119.8	115.4	112.3	111.1	110.0	109.7	110.4	112.8	117.2	132.2
77.5°	110.9	105.8	100.6	97.5	96.1	94.5	93.1	91.4	90.3	91.7	98.2
80°	95.4	89.6	85.6	83.7	82.3	80.0	76.9	74.1	71.5	71.0	75.0
82.5°	76.9	70.1	70.3	71.0	68.5	65.2	61.9	58.9	54.4	52.1	54.4
85°	62.1	58.6	57.0	61.4	57.7	52.8	47.6	42.2	35.2	29.5	32.1
87.5°	24.2	24.2	36.1	55.6	49.9	40.8	34.9	29.8	18.5	14.3	14.5
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°	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3
2.5°	551.3	551.7	551.5	551.3	551.3	551.0	551.3	551.3
5°	555.5	556.7	556.7	557.1	557.1	557.4	557.6	557.4
7.5°	561.8	563.9	565.3	567.0	567.2	567.4	567.9	567.4
10°	568.2	572.4	575.4	578.5	579.9	580.3	580.8	580.8
12.5°	576.1	582.0	587.4	592.8	595.4	596.8	596.8	597.7
15°	589.3	595.1	601.4	608.7	613.2	615.5	616.2	616.2
17.5°	607.8	612.9	618.3	625.4	631.0	634.0	634.7	634.5
20°	629.4	634.3	637.3	641.8	646.7	650.2	651.2	651.2
22.5°	654.0	656.8	657.3	658.7	662.7	667.3	669.5	669.9
25°	681.2	681.9	680.0	680.0	682.6	687.0	689.1	689.4
27.5°	716.3	712.8	708.1	706.5	708.1	713.3	715.9	716.8
30°	760.2	751.8	741.0	735.1	734.2	741.0	745.7	746.4
32.5°	810.4	798.2	783.9	771.9	768.9	773.1	778.7	778.5
35°	869.9	855.4	838.0	822.8	815.8	820.0	828.0	828.9
37.5°	938.6	919.6	899.7	880.5	869.5	870.6	879.1	881.9
40°	1015.3	990.7	965.6	939.8	924.1	921.1	931.4	933.0
42.5°	1097.4	1065.7	1034.1	1002.2	982.0	977.3	989.3	988.6
45°	1184.8	1144.5	1107.5	1072.3	1048.4	1041.3	1051.2	1051.2
47.5°	1278.9	1229.2	1185.1	1145.2	1119.2	1109.1	1118.5	1119.2
50°	1378.5	1325.8	1273.9	1229.6	1198.4	1185.5	1197.7	1199.6
52.5°	1477.7	1426.4	1374.1	1323.4	1285.7	1270.0	1284.0	1290.1
55°	1578.3	1527.9	1477.9	1428.5	1383.7	1365.2	1380.2	1387.9
57.5°	1684.5	1637.9	1590.3	1540.3	1497.2	1468.3	1484.3	1494.6
60°	1809.0	1769.2	1719.7	1664.6	1621.0	1591.7	1600.8	1610.0
62.5°	1907.5	1923.0	1881.0	1817.2	1761.2	1723.7	1732.6	1742.2
65°	1859.9	2018.7	2056.0	1991.5	1913.9	1855.5	1851.7	1856.6
67.5°	1554.6	1863.0	2087.8	2149.3	2084.3	2003.2	1988.2	1995.5
70°	1039.9	1424.0	1820.8	2116.2	2194.8	2163.3	2148.6	2153.0
72.5°	499.4	829.4	1235.3	1628.0	1867.2	1976.9	2012.1	2029.2
75°	182.7	329.2	595.4	897.1	1083.1	1253.8	1365.2	1410.7
77.5°	110.2	133.0	190.2	286.3	324.3	363.0	348.0	355.5
80°	81.6	92.2	104.3	117.2	121.5	121.5	116.8	113.0
82.5°	57.2	64.0	69.9	76.9	78.8	75.3	61.9	49.2
85°	36.8	39.9	42.4	46.9	45.7	43.6	29.3	26.0
87.5°	16.9	19.2	20.2	22.3	21.3	20.4	14.5	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)