

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: P192739

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192739
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977.9 lumens
Efficiency: N/A
Efficacy: 113.1 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

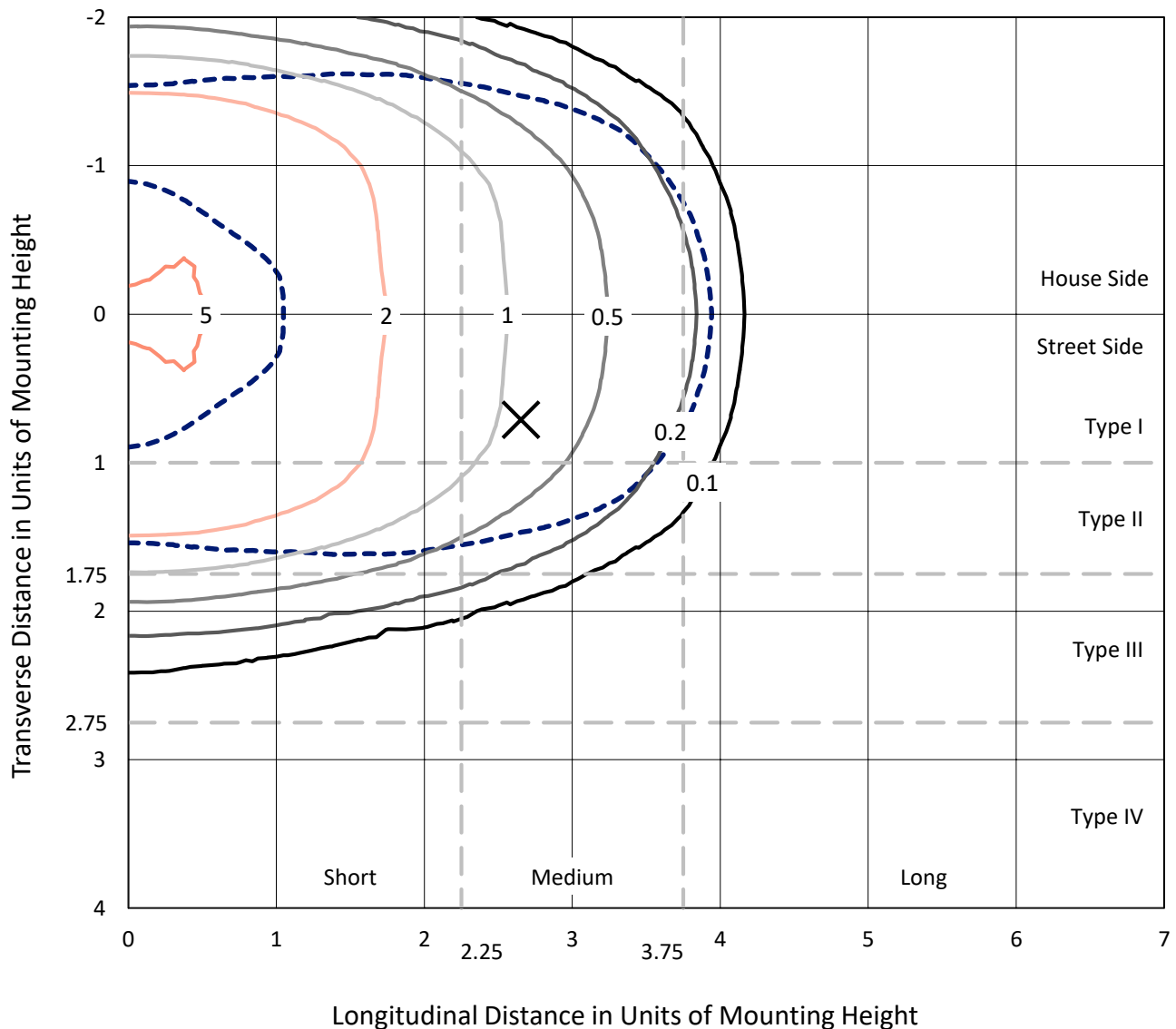


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

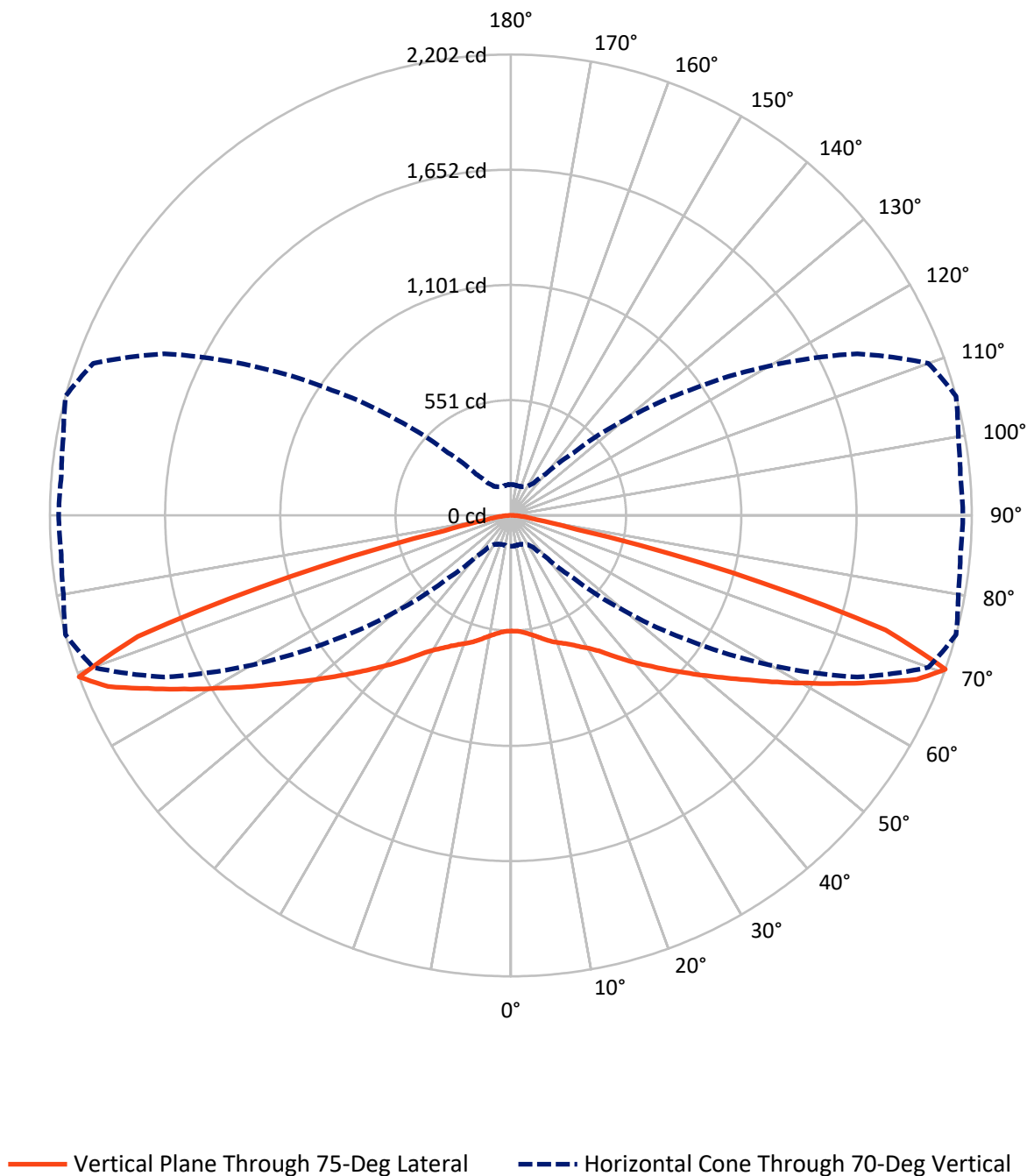


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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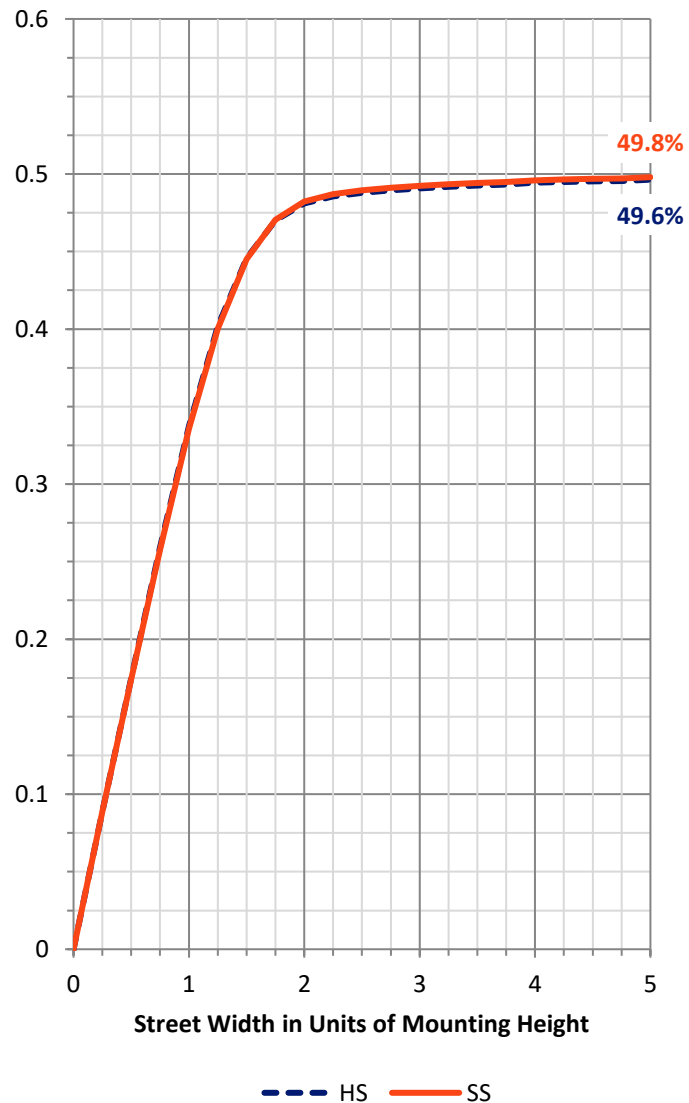
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2488.9	0.0	2488.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2488.9	0.0	2488.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4977.9	0.0	4977.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.1
10°-20°	164.5	3.3
20°-30°	309.7	6.2
30°-40°	548.4	11.0
40°-50°	917.1	18.4
50°-60°	1278.0	25.7
60°-70°	1185.2	23.8
70°-80°	472.3	9.5
80°-90°	49.6	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°	4977.9	100.0
0°-180°	4977.9	100.0

Coefficient of Utilization



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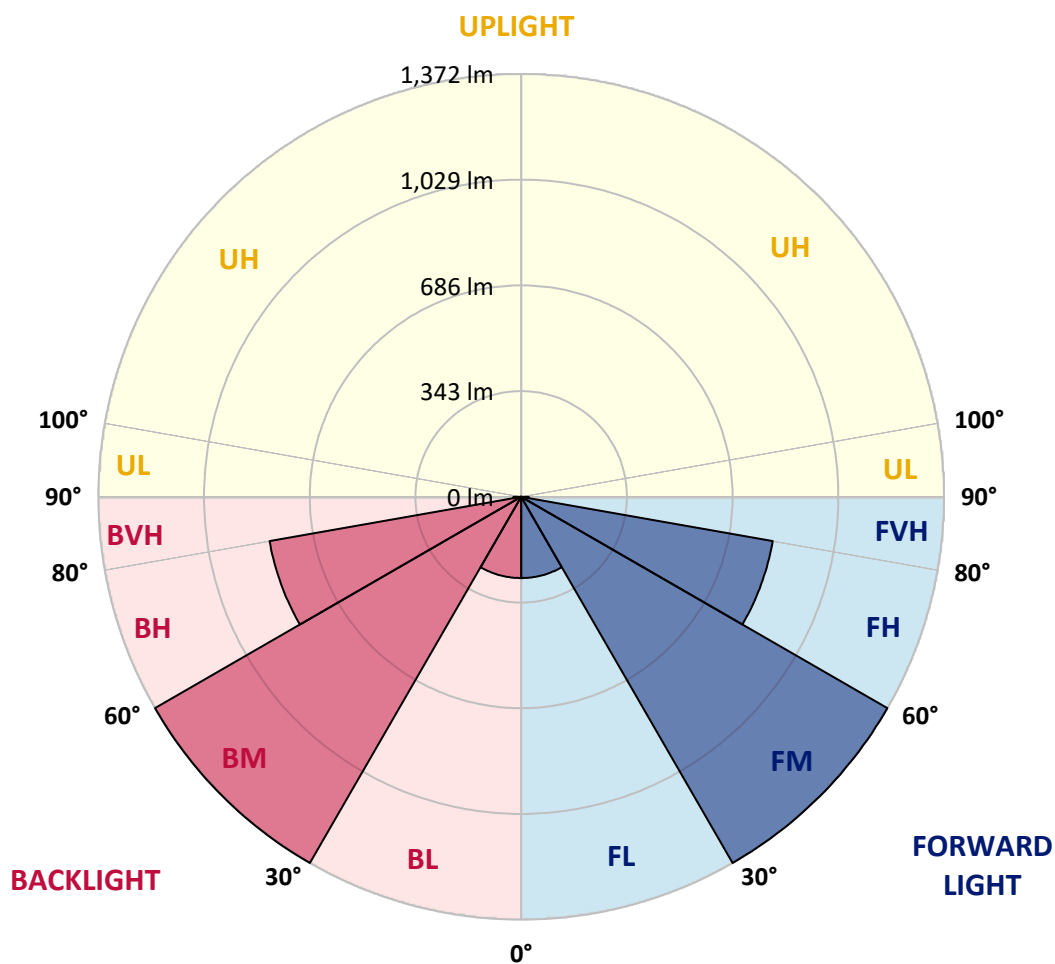
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.6	5.3			
FM	(30°-60°)	1371.8	27.6			
FH	(60°-80°)	828.7	16.6			G1/1800
FVH	(80°-90°)	24.8	0.5			G1/100
BL	(0°-30°)	263.6	5.3	B1/500		
BM	(30°-60°)	1371.8	27.6	B2/2500		
BH	(60°-80°)	828.7	16.6	B2/1000		G2/1000
BVH	(80°-90°)	24.8	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°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2
2.5°	551.2	550.7	551.2	551.0	551.4	551.4	552.0	552.9	552.9	553.6	553.3
5°	545.9	545.5	546.3	547.0	547.7	549.1	550.5	552.7	554.3	555.5	556.6
7.5°	535.3	535.3	536.1	537.8	539.4	542.5	545.9	550.0	554.3	557.8	560.8
10°	526.5	526.9	528.2	531.0	533.8	538.5	543.0	549.1	555.0	560.8	565.5
12.5°	521.3	522.0	524.1	528.4	533.0	539.4	546.3	554.1	560.6	567.7	572.4
15°	523.1	523.5	526.5	531.6	537.8	545.9	555.0	564.1	572.0	579.4	585.8
17.5°	532.2	532.8	536.4	542.3	548.6	558.0	567.9	578.3	588.0	596.3	604.2
20°	548.6	549.3	553.8	560.2	567.7	577.3	587.2	598.0	608.9	617.8	626.5
22.5°	572.0	573.1	577.3	583.7	592.1	602.4	614.2	625.8	636.1	644.4	652.2
25°	602.4	605.1	609.1	616.1	625.1	634.5	647.3	659.0	668.8	676.7	682.3
27.5°	645.8	649.3	652.4	659.2	667.9	676.9	689.5	700.0	709.3	716.8	721.1
30°	703.2	706.7	709.7	716.4	724.4	732.8	744.8	754.0	759.9	765.8	765.6
32.5°	772.8	776.7	777.8	784.8	793.1	802.3	813.1	818.3	822.9	823.7	819.5
35°	850.7	852.6	857.2	866.8	876.1	883.7	894.0	896.6	896.6	893.0	883.7
37.5°	936.2	937.3	943.9	954.5	964.1	971.9	979.0	984.1	981.4	973.9	958.2
40°	1029.8	1031.9	1041.2	1050.6	1061.5	1068.8	1076.3	1077.3	1074.7	1063.6	1042.3
42.5°	1119.2	1121.0	1130.4	1145.2	1159.4	1169.5	1176.5	1178.0	1169.7	1159.6	1133.0
45°	1196.1	1201.0	1213.3	1230.7	1251.1	1265.4	1275.2	1279.1	1271.8	1258.6	1227.8
47.5°	1257.0	1262.0	1279.3	1300.0	1325.5	1348.8	1364.7	1373.2	1371.3	1361.5	1327.8
50°	1301.8	1306.4	1325.2	1350.7	1380.3	1409.2	1436.5	1456.8	1463.7	1459.3	1428.6
52.5°	1306.8	1314.6	1336.8	1370.8	1409.5	1449.0	1487.8	1522.1	1545.5	1549.0	1526.2
55°	1234.6	1242.4	1273.0	1323.5	1381.0	1445.5	1507.6	1565.4	1611.3	1634.8	1622.8
57.5°	1064.3	1078.2	1110.4	1169.7	1254.2	1350.7	1449.7	1552.5	1645.9	1708.3	1720.3
60°	815.6	832.1	864.6	927.6	1021.8	1136.8	1269.0	1421.0	1585.9	1726.1	1809.9
62.5°	523.3	538.7	572.8	627.7	704.4	829.1	970.9	1151.4	1373.0	1594.4	1793.8
65°	268.9	277.4	295.2	328.5	388.2	481.4	608.6	788.7	1042.0	1315.2	1603.6
67.5°	170.3	172.0	176.0	180.8	196.0	228.3	287.5	399.7	608.1	893.0	1230.7
70°	147.3	147.3	145.5	144.7	146.5	151.0	160.2	186.3	256.6	423.9	709.7
72.5°	134.8	133.4	130.1	127.5	127.1	127.1	128.9	133.0	144.2	172.6	277.8
75°	124.2	120.1	115.7	112.6	111.6	110.4	110.2	110.8	113.2	117.7	132.6
77.5°	111.2	106.1	100.9	97.9	96.4	94.8	93.4	91.8	90.5	92.0	98.6
80°	95.7	89.9	85.9	84.0	82.6	80.2	77.1	74.3	71.8	71.2	75.3
82.5°	77.1	70.4	70.6	71.2	68.8	65.4	62.1	59.0	54.6	52.2	54.6
85°	62.4	58.8	57.2	61.6	57.9	52.9	47.7	42.4	35.3	29.6	32.2
87.5°	24.2	24.2	36.3	55.7	50.1	41.0	35.1	29.8	18.6	14.3	14.6
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°	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2
2.5°	553.1	553.6	553.3	553.1	553.1	552.9	553.1	553.1
5°	557.3	558.6	558.6	559.0	559.0	559.2	559.4	559.2
7.5°	563.7	565.9	567.2	568.9	569.1	569.4	569.8	569.4
10°	570.0	574.2	577.3	580.3	581.8	582.3	582.8	582.8
12.5°	578.1	583.9	589.4	594.7	597.3	598.7	598.7	599.8
15°	591.2	597.1	603.4	610.8	615.2	617.6	618.3	618.3
17.5°	609.7	615.0	620.4	627.4	633.0	636.1	636.9	636.7
20°	631.4	636.4	639.5	643.9	648.9	652.4	653.4	653.4
22.5°	656.1	659.0	659.5	660.8	664.9	669.5	671.7	672.2
25°	683.4	684.2	682.3	682.3	684.8	689.3	691.4	691.7
27.5°	718.7	715.2	710.5	708.9	710.5	715.6	718.3	719.2
30°	762.7	754.2	743.4	737.5	736.6	743.4	748.1	748.9
32.5°	813.1	800.9	786.4	774.4	771.4	775.6	781.3	781.1
35°	872.9	858.2	840.9	825.6	818.5	822.7	830.7	831.7
37.5°	941.7	922.7	902.7	883.4	872.3	873.5	882.0	884.8
40°	1018.8	993.9	968.8	942.9	927.2	924.2	934.5	936.2
42.5°	1101.0	1069.2	1037.5	1005.5	985.3	980.6	992.6	991.8
45°	1188.7	1148.4	1111.1	1075.8	1051.8	1044.8	1054.7	1054.7
47.5°	1283.1	1233.2	1189.0	1149.0	1122.8	1112.8	1122.2	1122.8
50°	1383.1	1330.1	1278.3	1233.7	1202.4	1189.5	1201.8	1203.6
52.5°	1482.6	1431.1	1378.7	1327.8	1290.0	1274.2	1288.2	1294.4
55°	1583.5	1533.0	1482.8	1433.3	1388.2	1369.7	1384.8	1392.5
57.5°	1690.1	1643.3	1595.5	1545.5	1502.1	1473.3	1489.2	1499.6
60°	1815.1	1775.0	1725.4	1670.1	1626.4	1597.0	1606.1	1615.3
62.5°	1913.9	1929.4	1887.2	1823.3	1767.0	1729.5	1738.4	1748.0
65°	1866.1	2025.3	2062.9	1998.2	1920.2	1861.7	1857.9	1862.8
67.5°	1559.7	1869.2	2094.7	2156.4	2091.2	2009.9	1994.7	2002.0
70°	1043.4	1428.8	1826.9	2123.2	2202.0	2170.6	2155.6	2160.2
72.5°	501.1	832.1	1239.3	1633.4	1873.4	1983.5	2018.8	2035.9
75°	183.2	330.3	597.3	900.1	1086.7	1257.9	1369.7	1415.4
77.5°	110.6	133.4	190.7	287.3	325.4	364.2	349.1	356.6
80°	81.8	92.5	104.7	117.7	121.9	121.9	117.1	113.4
82.5°	57.4	64.3	70.2	77.1	79.0	75.5	62.1	49.3
85°	36.9	40.0	42.6	47.1	45.9	43.8	29.4	26.1
87.5°	16.9	19.3	20.2	22.4	21.5	20.4	14.6	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)