

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: P269019

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

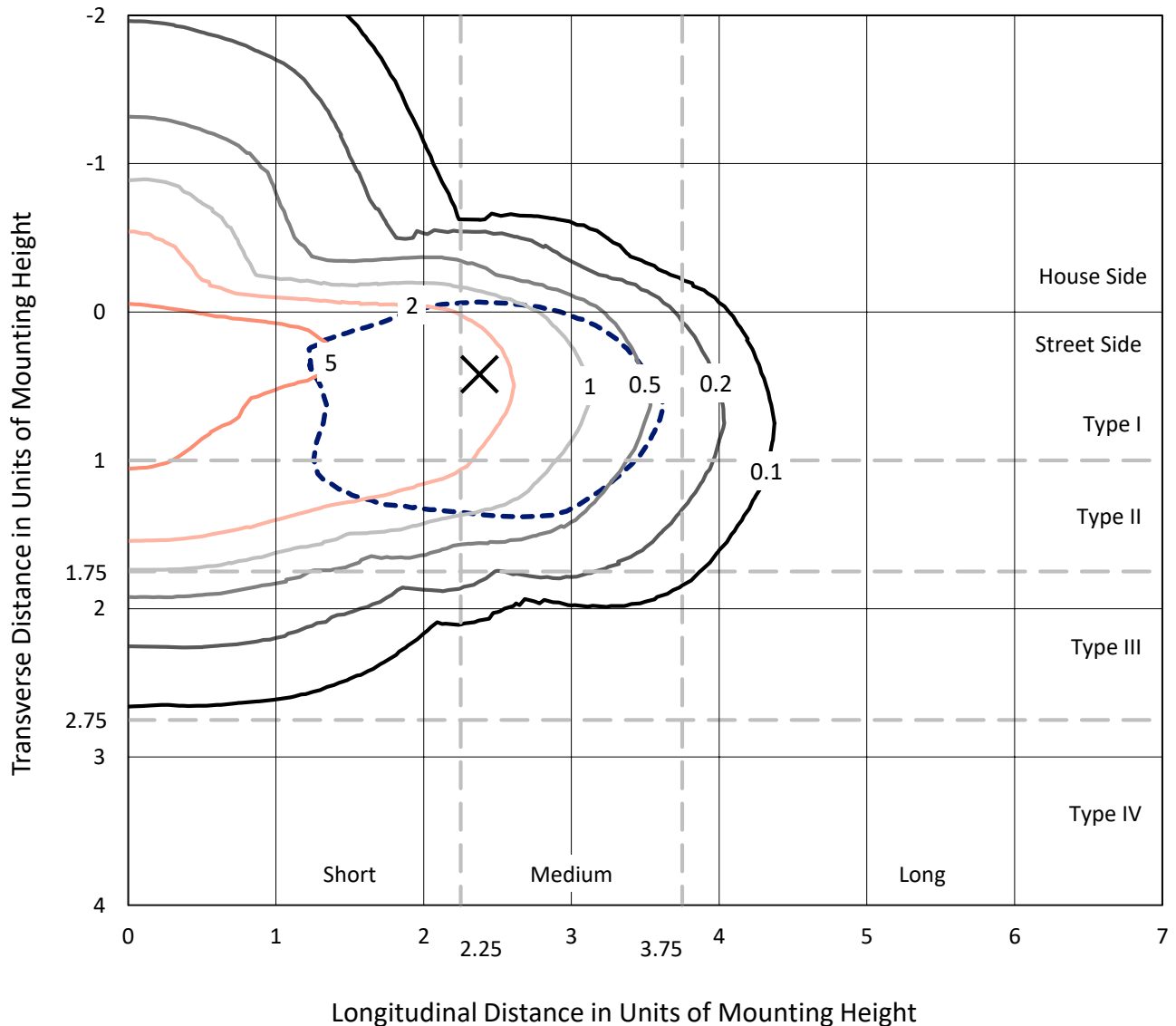
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

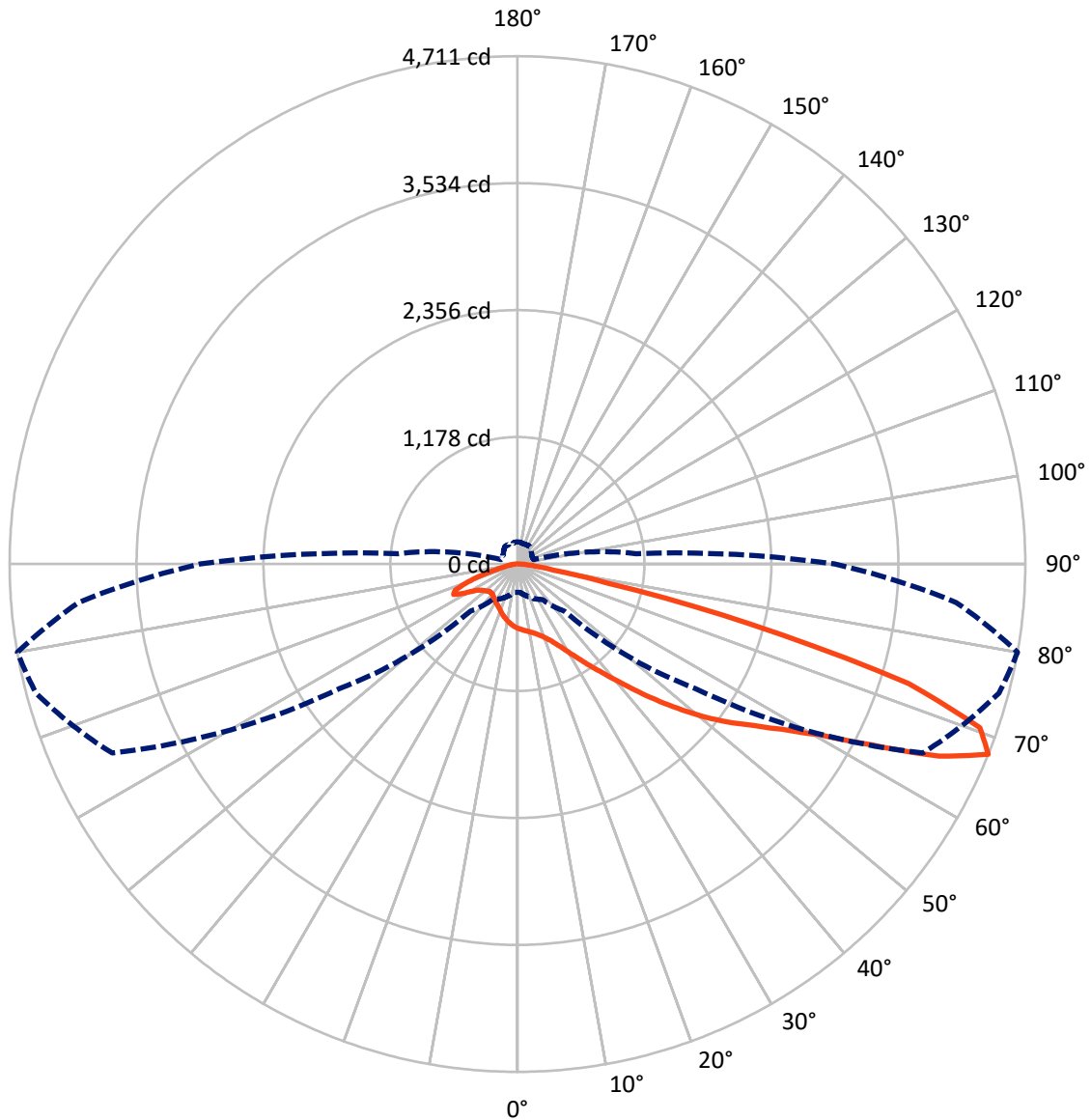
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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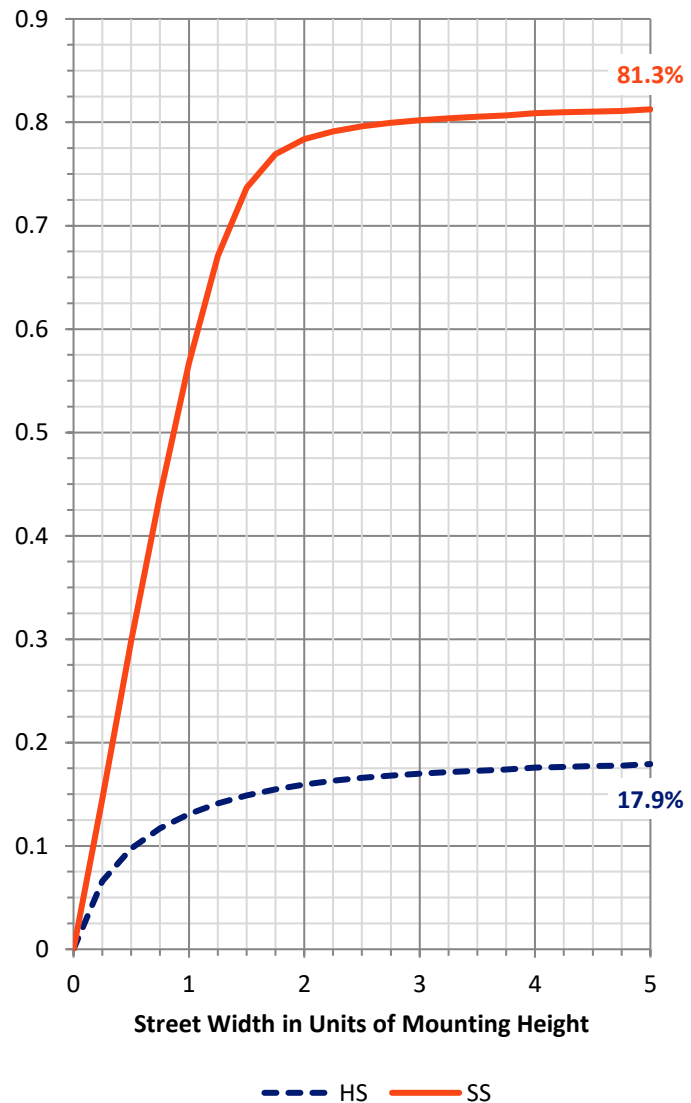
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	790.6	0.0	790.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	3502.4	0.0	3502.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	4293.0	0.0	4293.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.3
10°-20°	158.5	3.7
20°-30°	262.3	6.1
30°-40°	429.1	10.0
40°-50°	692.8	16.1
50°-60°	1000.2	23.3
60°-70°	1103.9	25.7
70°-80°	508.8	11.9
80°-90°	82.3	1.9
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°	4293.0	100.0
0°-180°	4293.0	100.0



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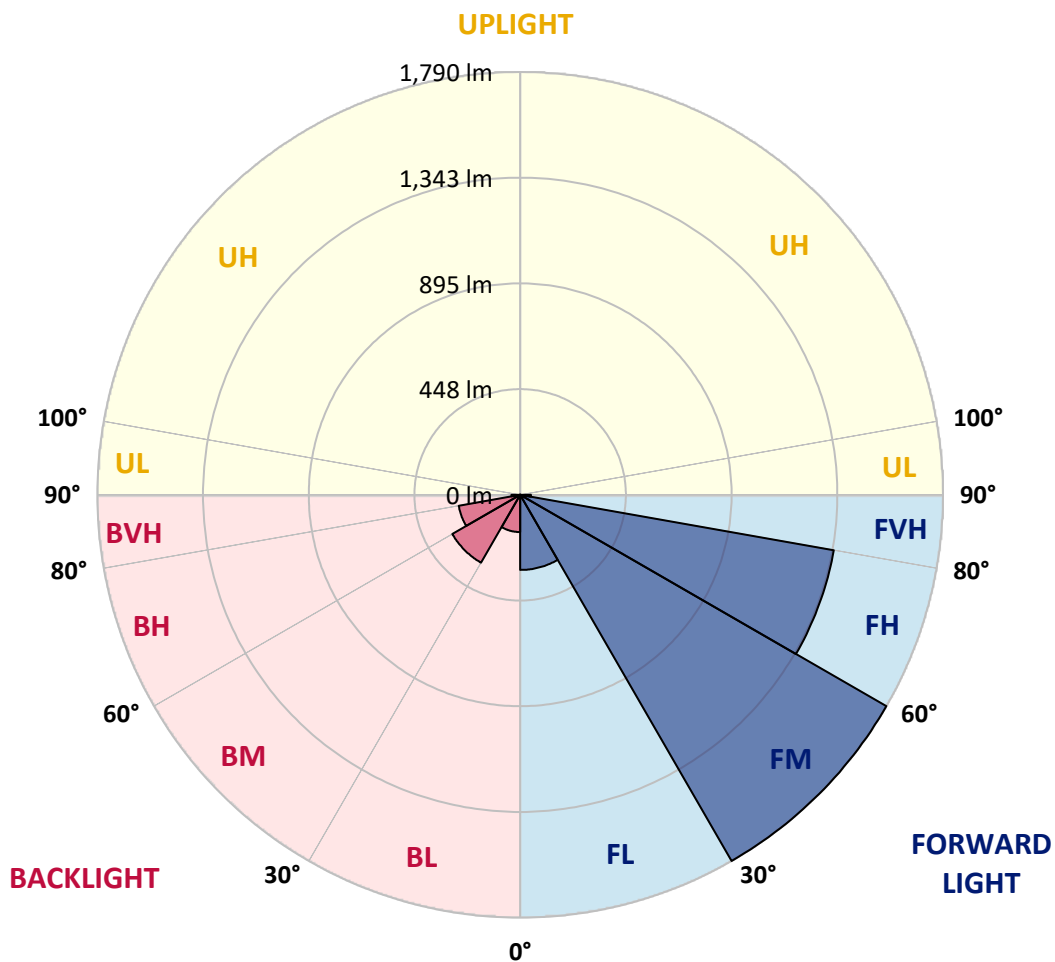
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.1	7.4			
FM	(30°-60°)	1790.5	41.7			
FH	(60°-80°)	1348.5	31.4			G1/1800
FVH	(80°-90°)	45.2	1.1			G1/100
BL	(0°-30°)	157.7	3.7	B1/500		
BM	(30°-60°)	331.7	7.7	B1/1000		
BH	(60°-80°)	264.1	6.2	B1/500		G1/500
BVH	(80°-90°)	37.1	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5
2.5°	652.3	648.7	649.3	648.1	645.1	639.6	633.7	622.9	611.7	605.7	601.1
5°	707.0	705.9	704.5	701.0	693.0	681.6	667.4	648.3	627.9	617.1	606.7
7.5°	747.7	747.1	745.2	743.1	735.4	721.6	700.1	673.1	643.4	628.5	612.5
10°	751.2	752.2	753.7	759.3	760.4	753.0	731.3	698.5	659.4	640.4	619.9
12.5°	722.3	724.8	730.4	745.1	760.4	769.5	758.3	725.1	678.2	655.1	629.3
15°	684.4	685.5	692.7	712.6	740.4	768.5	779.0	754.4	702.6	674.2	643.1
17.5°	668.1	668.7	673.5	686.8	712.6	752.8	790.7	786.5	732.3	697.9	660.3
20°	659.9	661.3	668.2	681.4	697.7	732.7	792.3	821.0	767.8	727.4	681.9
22.5°	683.3	682.6	685.1	691.8	705.4	726.5	791.0	856.4	813.1	765.4	709.9
25°	738.0	740.4	735.9	728.5	732.9	747.7	797.9	894.8	869.6	814.4	746.8
27.5°	816.0	813.7	807.1	789.8	780.6	787.0	820.2	936.3	940.0	878.5	795.3
30°	893.9	891.8	885.5	864.3	845.8	840.5	863.8	983.9	1024.0	955.6	854.8
32.5°	974.5	972.4	966.4	945.3	923.0	910.7	925.8	1038.8	1122.9	1047.9	925.1
35°	1074.1	1070.1	1057.6	1028.2	1006.2	996.7	1003.6	1107.9	1237.1	1156.8	1010.2
37.5°	1167.6	1173.8	1161.1	1120.5	1092.0	1088.7	1096.6	1192.2	1360.0	1278.8	1108.1
40°	1261.8	1262.7	1251.3	1218.2	1188.8	1183.3	1203.0	1294.5	1505.2	1424.7	1227.1
42.5°	1359.0	1361.1	1341.9	1311.2	1289.6	1290.8	1313.1	1414.3	1671.7	1596.5	1364.0
45°	1474.2	1477.4	1456.2	1416.0	1396.3	1435.9	1426.6	1548.8	1854.5	1791.8	1521.3
47.5°	1594.6	1599.5	1583.4	1545.9	1521.3	1575.5	1540.1	1697.7	2050.9	2001.2	1693.9
50°	1660.3	1667.3	1683.0	1680.2	1674.9	1665.8	1666.6	1857.5	2253.6	2219.4	1871.4
52.5°	1625.0	1624.9	1681.8	1751.2	1825.1	1830.7	1821.0	2025.9	2443.0	2432.6	2038.7
55°	1463.6	1474.6	1561.1	1695.2	1897.3	2023.4	2052.2	2219.0	2629.0	2640.9	2208.4
57.5°	1194.7	1203.8	1320.5	1507.5	1800.1	2138.0	2381.0	2499.4	2836.8	2893.1	2434.2
60°	810.4	821.3	944.9	1169.7	1538.3	2074.1	2694.0	2999.9	3085.9	3213.7	2751.2
62.5°	476.2	486.2	587.0	737.8	1083.1	1777.7	2831.4	3711.8	3481.3	3697.6	3234.8
65°	327.8	334.6	383.5	459.3	622.4	1197.4	2661.0	4203.4	4089.9	4297.0	3795.6
67.5°	263.7	262.9	301.8	353.4	400.7	617.3	2012.3	4148.0	4625.0	4711.4	4086.6
70°	217.3	216.4	242.8	285.5	320.2	347.6	1096.0	3500.3	4515.9	4551.0	3818.6
72.5°	181.7	182.5	199.6	231.3	262.8	261.9	481.6	2462.4	3552.5	3795.2	3044.0
75°	153.4	153.9	165.1	187.4	213.3	210.9	261.2	1334.1	2065.1	2233.9	1687.3
77.5°	130.7	131.1	138.2	150.6	169.2	168.3	190.6	576.4	861.5	850.9	577.3
80°	116.4	116.4	119.8	122.2	132.3	128.5	141.5	276.9	364.2	336.2	230.3
82.5°	91.3	91.7	112.5	111.6	104.3	99.4	99.4	163.1	193.0	178.4	134.8
85°	51.4	51.2	72.6	87.5	91.7	70.0	69.3	91.3	105.0	92.5	65.2
87.5°	22.0	22.4	33.5	38.8	52.0	43.6	42.8	47.2	53.4	46.4	30.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5
2.5°	596.7	591.2	579.0	564.0	550.5	541.7	533.7	522.0	522.6	514.5	508.7
5°	596.3	584.7	556.9	523.7	491.8	468.7	451.5	435.8	431.9	424.5	420.1
7.5°	596.7	578.0	531.1	478.1	438.6	409.4	394.5	386.4	384.5	381.9	382.0
10°	598.1	572.0	502.8	435.4	393.9	374.8	371.1	373.6	376.6	377.5	377.6
12.5°	601.4	566.4	471.7	397.3	366.1	360.1	366.2	375.0	380.6	383.3	383.1
15°	609.1	562.2	442.0	367.5	350.6	353.8	365.3	377.5	385.7	389.5	389.8
17.5°	617.3	556.1	411.2	344.7	339.2	347.3	361.4	375.9	385.9	390.1	391.0
20°	628.2	548.4	379.2	327.6	328.4	337.6	350.9	365.3	376.4	380.1	381.7
22.5°	642.3	540.2	351.1	313.7	316.2	323.1	333.5	345.9	355.6	357.3	358.9
25°	661.3	531.3	328.6	300.9	302.0	306.1	313.0	320.3	327.2	325.2	326.8
27.5°	686.8	523.7	311.9	289.3	287.5	288.3	291.9	294.1	297.8	292.5	293.1
30°	716.8	515.4	299.0	279.3	274.0	272.5	273.3	274.5	277.2	270.1	269.0
32.5°	751.7	505.6	287.0	270.3	262.9	260.0	260.4	263.7	274.3	269.9	267.5
35°	792.3	494.3	274.3	260.6	255.5	251.3	250.8	261.4	292.9	290.2	288.0
37.5°	839.8	483.2	261.6	249.5	250.0	245.3	243.9	255.9	296.5	285.8	284.3
40°	900.3	477.2	250.8	238.1	243.4	242.6	239.7	245.7	272.8	253.2	250.6
42.5°	975.2	478.1	242.8	225.6	235.3	242.1	237.3	237.5	247.3	232.5	230.1
45°	1067.5	488.0	237.2	215.6	226.2	241.4	236.6	233.1	234.0	226.2	224.8
47.5°	1175.3	508.5	233.1	207.2	217.5	238.9	236.3	231.9	230.0	225.7	224.7
50°	1295.1	538.4	230.1	199.6	209.7	235.3	236.6	230.5	228.4	226.8	226.2
52.5°	1412.9	572.3	225.7	192.7	203.6	230.5	237.2	229.2	227.0	225.7	225.0
55°	1544.0	614.8	218.9	187.0	198.4	224.7	237.2	227.5	224.8	225.0	224.8
57.5°	1721.4	683.5	210.9	182.1	192.3	217.5	233.1	225.2	222.2	222.3	222.5
60°	1998.5	804.6	201.2	177.3	184.7	209.0	227.6	220.7	217.5	218.3	218.6
62.5°	2406.0	982.3	188.6	170.0	176.6	200.0	220.1	214.8	211.6	213.6	213.6
65°	2829.5	1139.2	172.8	161.1	168.3	190.0	210.6	207.2	204.2	209.0	208.9
67.5°	2943.4	1104.0	157.3	151.2	159.8	179.0	199.1	197.4	195.7	204.2	203.7
70°	2614.7	886.4	142.9	140.9	150.5	167.2	186.8	186.8	185.8	192.1	190.6
72.5°	1992.1	628.5	129.1	130.2	140.0	154.2	173.6	175.0	173.4	176.4	175.2
75°	1066.5	359.7	115.4	118.3	126.8	141.2	158.7	160.2	159.1	158.9	159.5
77.5°	354.4	175.9	101.0	105.7	113.0	127.6	143.3	145.6	143.1	142.7	142.4
80°	157.9	110.5	85.2	91.3	97.8	112.2	127.0	128.9	126.2	130.0	125.1
82.5°	101.5	72.8	68.4	75.0	81.3	96.7	110.8	111.2	108.7	126.2	107.5
85°	49.2	45.0	51.4	57.5	63.1	76.0	91.7	91.9	85.6	78.1	75.3
87.5°	24.6	26.2	34.2	39.7	42.5	52.2	66.7	65.5	62.8	57.0	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)