

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: P269018

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269018
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-T2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3500 lumens
Efficiency: N/A
Efficacy: 102.9 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

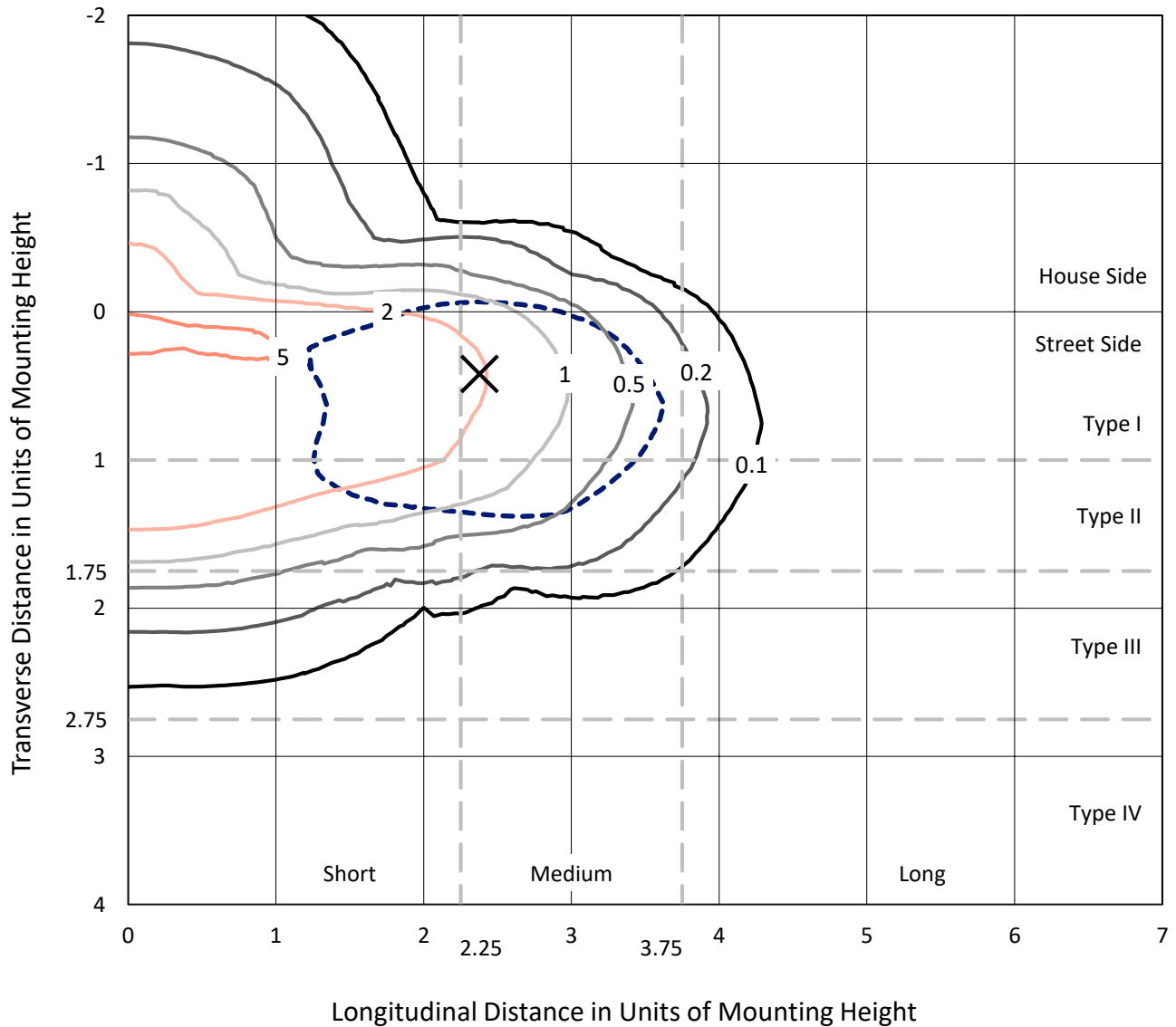
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

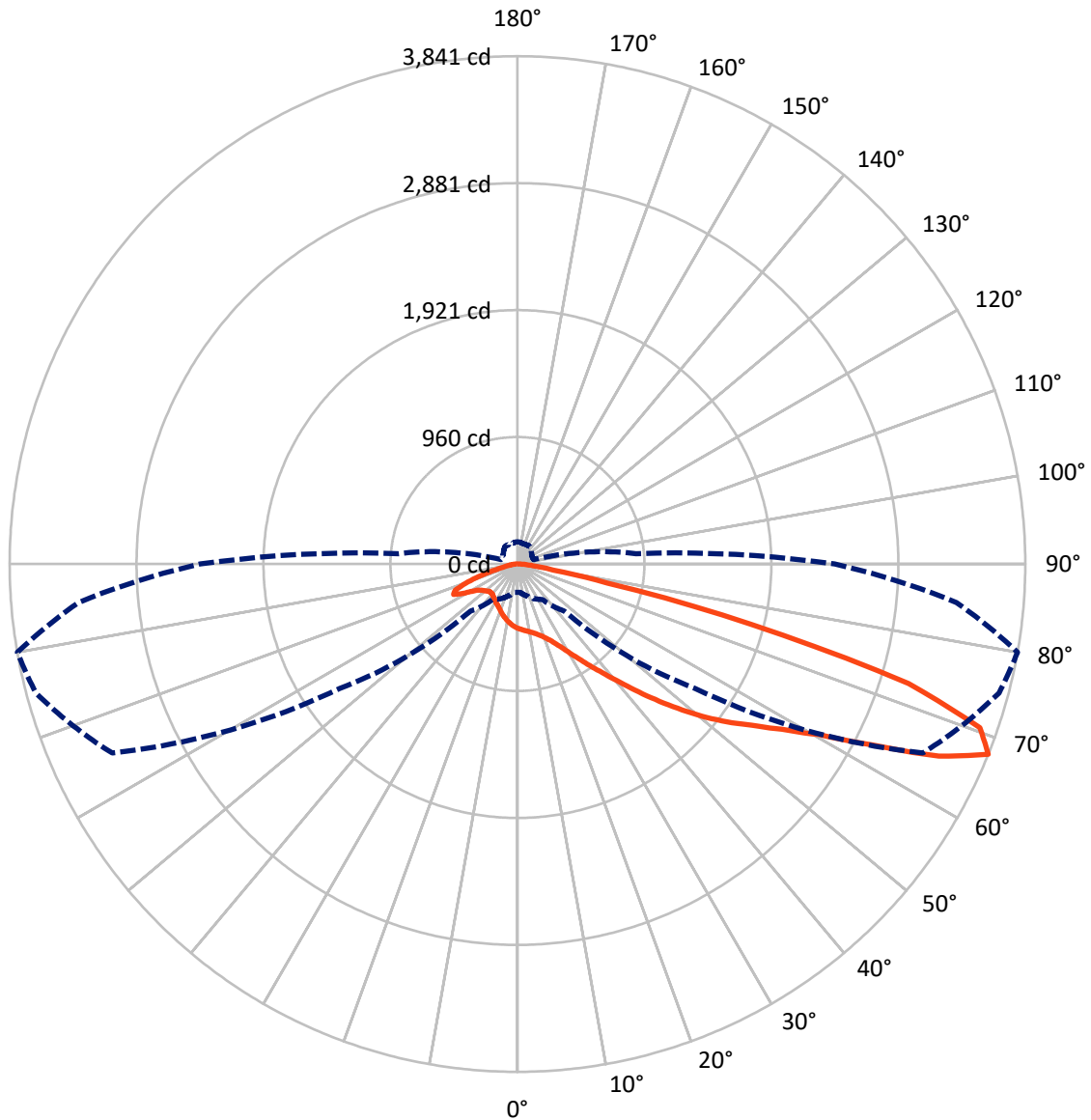
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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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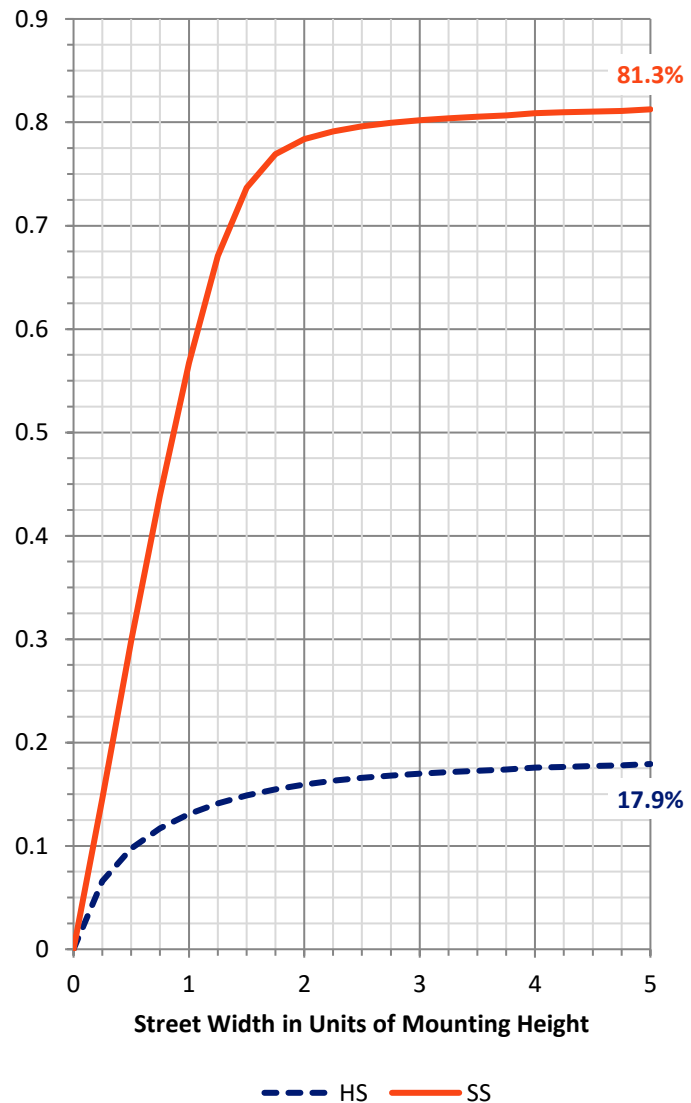
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	644.6	0.0	644.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	2855.4	0.0	2855.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	3500.0	0.0	3500.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	1.3
10°-20°	129.2	3.7
20°-30°	213.9	6.1
30°-40°	349.8	10.0
40°-50°	564.9	16.1
50°-60°	815.5	23.3
60°-70°	899.9	25.7
70°-80°	414.8	11.9
80°-90°	67.1	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°	3500.0	100.0
0°-180°	3500.0	100.0



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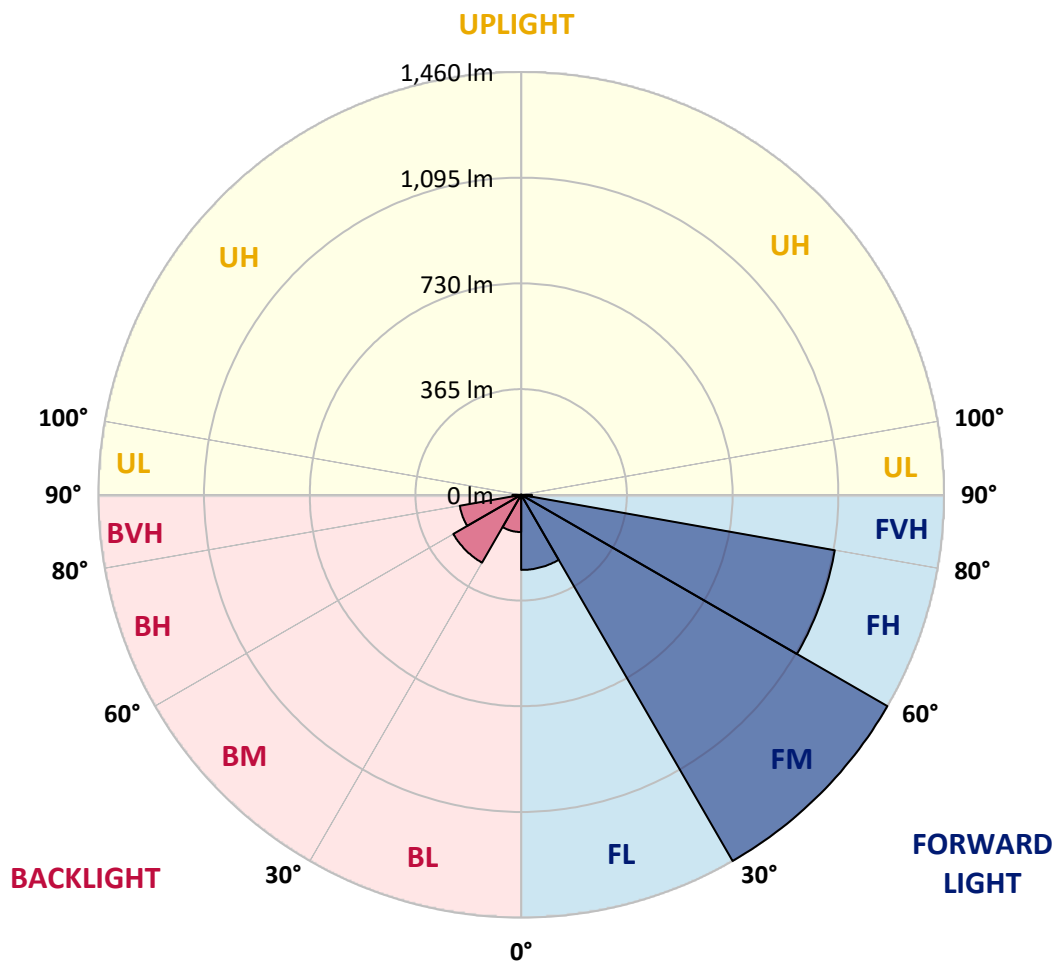
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.3	7.4			
FM	(30°-60°)	1459.8	41.7			
FH	(60°-80°)	1099.4	31.4			G1/1800
FVH	(80°-90°)	36.9	1.1			G1/100
BL	(0°-30°)	128.6	3.7	B1/500		
BM	(30°-60°)	270.4	7.7	B1/1000		
BH	(60°-80°)	215.3	6.2	B1/500		G1/500
BVH	(80°-90°)	30.2	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°	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
2.5°	531.8	528.8	529.3	528.5	525.9	521.3	516.5	507.8	498.6	493.8	490.0
5°	576.4	575.5	574.2	571.5	565.0	555.7	544.2	528.7	511.9	503.1	494.6
7.5°	609.6	609.1	607.6	605.8	599.4	588.3	570.9	548.8	524.5	512.5	499.4
10°	612.4	613.3	614.4	619.1	620.0	613.9	596.1	569.4	537.5	522.0	505.3
12.5°	589.0	590.8	595.4	607.3	620.0	627.3	618.3	591.2	552.9	534.1	512.9
15°	557.9	558.9	564.7	581.1	603.7	626.5	635.1	615.1	572.8	549.7	524.3
17.5°	544.6	545.2	549.1	560.1	581.1	613.7	644.7	641.1	597.1	568.9	538.3
20°	537.9	539.2	544.8	555.5	568.7	597.5	646.1	669.2	625.9	593.2	555.8
22.5°	557.0	556.5	558.7	564.0	575.2	592.4	645.0	698.3	662.9	624.1	578.8
25°	601.7	603.7	600.0	593.9	597.6	609.6	650.5	729.6	709.0	663.8	608.7
27.5°	665.3	663.4	658.1	643.9	636.4	641.7	668.7	763.3	766.4	716.3	648.3
30°	728.6	727.1	722.0	704.7	689.5	685.2	704.2	802.0	834.9	779.2	696.9
32.5°	794.6	792.8	788.0	770.7	752.5	742.4	754.7	846.9	915.5	854.3	754.1
35°	875.7	872.3	862.3	838.3	820.3	812.5	818.3	903.2	1008.4	943.2	823.7
37.5°	952.1	957.0	946.6	913.5	890.3	887.5	894.0	972.0	1108.8	1042.7	903.3
40°	1028.6	1029.5	1020.3	993.2	969.2	964.7	980.8	1055.4	1227.2	1161.5	1000.4
42.5°	1107.9	1109.6	1094.0	1069.1	1051.3	1052.3	1070.5	1153.1	1363.0	1301.6	1112.0
45°	1201.8	1204.4	1187.2	1154.4	1138.4	1170.6	1163.0	1262.7	1511.8	1460.9	1240.3
47.5°	1300.0	1304.0	1291.0	1260.2	1240.3	1284.5	1255.7	1384.1	1672.0	1631.5	1381.1
50°	1353.7	1359.3	1372.2	1369.8	1365.6	1358.1	1358.7	1514.5	1837.4	1809.4	1525.9
52.5°	1324.9	1324.7	1371.3	1427.8	1488.0	1492.5	1484.5	1651.8	1991.7	1983.3	1662.0
55°	1193.2	1202.2	1272.7	1382.0	1546.8	1649.6	1673.2	1809.0	2143.4	2153.1	1800.5
57.5°	974.0	981.5	1076.6	1229.1	1467.6	1743.0	1941.1	2037.6	2312.9	2358.7	1984.6
60°	660.7	669.5	770.3	953.6	1254.3	1691.0	2196.4	2445.7	2515.9	2620.0	2243.1
62.5°	388.2	396.3	478.4	601.5	883.0	1449.2	2308.4	3026.2	2838.3	3014.5	2637.3
65°	267.2	272.7	312.7	374.5	507.5	976.1	2169.4	3426.9	3334.2	3503.1	3094.4
67.5°	215.1	214.3	246.0	288.0	326.8	503.3	1640.6	3381.7	3770.5	3841.1	3331.8
70°	177.1	176.4	197.9	232.8	261.0	283.4	893.5	2853.7	3681.7	3710.3	3113.3
72.5°	148.2	148.8	162.7	188.6	214.2	213.4	392.6	2007.5	2896.2	3094.1	2481.7
75°	125.1	125.5	134.6	152.8	173.8	171.9	213.0	1087.6	1683.7	1821.3	1375.7
77.5°	106.4	106.8	112.6	122.9	137.8	137.1	155.4	469.9	702.4	693.8	470.5
80°	95.0	95.0	97.6	99.6	107.8	104.7	115.3	225.7	296.9	274.2	187.8
82.5°	74.4	74.7	91.6	91.0	84.9	80.9	80.9	132.9	157.4	145.4	110.0
85°	42.0	41.7	59.1	71.3	74.7	57.0	56.6	74.4	85.7	75.5	53.2
87.5°	18.0	18.2	27.4	31.7	42.4	35.6	34.9	38.4	43.6	37.6	24.7
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°	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
2.5°	486.4	481.9	472.1	459.9	448.9	441.6	435.0	425.5	426.2	419.6	414.7
5°	486.1	476.8	454.1	427.0	401.0	382.1	368.0	355.3	352.1	346.1	342.6
7.5°	486.4	471.3	433.1	389.8	357.5	333.8	321.8	314.9	313.4	311.4	311.5
10°	487.6	466.3	409.8	354.9	321.1	305.6	302.5	304.6	307.0	307.7	307.8
12.5°	490.4	461.8	384.6	323.8	298.4	293.6	298.5	305.7	310.4	312.6	312.4
15°	496.7	458.3	360.3	299.7	285.8	288.4	297.8	307.7	314.4	317.6	317.7
17.5°	503.3	453.4	335.2	281.0	276.6	283.1	294.6	306.3	314.6	318.1	318.8
20°	512.2	447.1	309.0	267.1	267.8	275.2	286.0	297.8	307.0	309.8	311.3
22.5°	523.6	440.3	286.2	255.7	257.8	263.5	271.8	282.1	290.1	291.4	292.6
25°	539.2	433.2	268.0	245.3	246.2	249.5	255.2	261.1	266.7	265.2	266.3
27.5°	560.1	427.0	254.3	235.9	234.4	235.0	238.0	239.8	242.8	238.5	238.9
30°	584.4	420.2	243.8	227.6	223.3	222.2	222.8	223.8	226.1	220.3	219.4
32.5°	613.0	412.1	234.0	220.4	214.3	211.9	212.3	215.1	223.7	220.1	218.2
35°	646.1	403.0	223.7	212.4	208.2	204.9	204.5	213.2	238.8	236.6	234.8
37.5°	684.8	393.8	213.3	203.5	203.8	200.1	198.9	208.6	241.7	233.0	231.8
40°	734.0	389.1	204.5	194.0	198.3	197.7	195.4	200.4	222.4	206.4	204.4
42.5°	795.0	389.8	197.9	183.9	191.8	197.3	193.6	193.7	201.6	189.5	187.7
45°	870.3	397.9	193.3	175.8	184.3	196.8	192.7	190.0	190.7	184.3	183.3
47.5°	958.2	414.6	190.0	169.1	177.2	194.9	192.6	189.1	187.4	184.1	183.2
50°	1055.9	438.8	187.7	162.7	170.9	191.8	192.7	187.9	186.3	185.0	184.3
52.5°	1151.8	466.6	184.1	157.2	165.9	187.9	193.3	186.9	185.1	184.1	183.6
55°	1258.9	501.3	178.6	152.5	161.8	183.2	193.3	185.4	183.3	183.6	183.3
57.5°	1403.4	557.3	171.9	148.5	156.8	177.2	190.0	183.7	181.1	181.3	181.5
60°	1629.3	655.9	164.0	144.5	150.6	170.4	185.6	179.9	177.2	178.0	178.1
62.5°	1961.4	800.8	153.7	138.7	144.1	163.0	179.4	175.1	172.5	174.2	174.2
65°	2306.8	928.8	140.9	131.3	137.1	154.9	171.7	169.1	166.5	170.4	170.3
67.5°	2399.7	900.1	128.2	123.2	130.3	146.0	162.4	160.9	159.5	166.5	166.0
70°	2131.8	722.6	116.5	115.0	122.7	136.4	152.4	152.4	151.5	156.7	155.4
72.5°	1624.1	512.5	105.3	106.1	114.1	125.9	141.5	142.7	141.4	143.9	142.8
75°	869.5	293.2	94.1	96.5	103.3	115.2	129.4	130.7	129.7	129.5	130.1
77.5°	289.0	143.4	82.4	86.1	92.2	104.1	116.8	118.8	116.7	116.3	116.2
80°	128.6	90.1	69.3	74.4	79.8	91.4	103.6	105.1	102.9	106.0	102.0
82.5°	82.7	59.3	55.7	61.2	66.4	79.0	90.3	90.5	88.6	102.9	87.8
85°	40.2	36.7	42.0	46.9	51.4	62.1	74.7	75.0	69.8	63.6	61.4
87.5°	20.0	21.4	27.8	32.3	34.7	42.6	54.4	53.4	51.2	46.5	42.8
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)