

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: P193889

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193889
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-T2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3288 lumens
Efficiency: N/A
Efficacy: 96.7 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

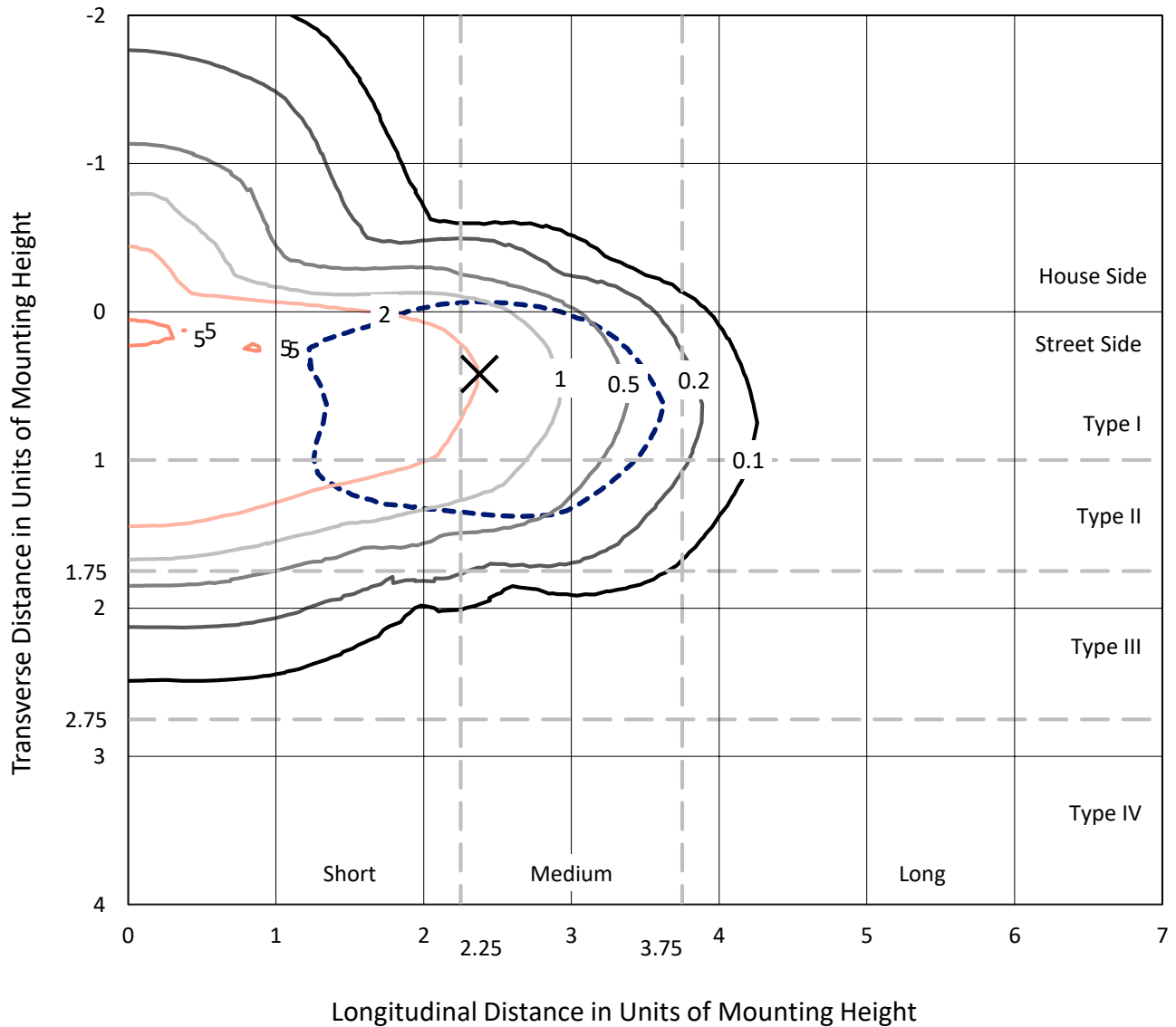


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

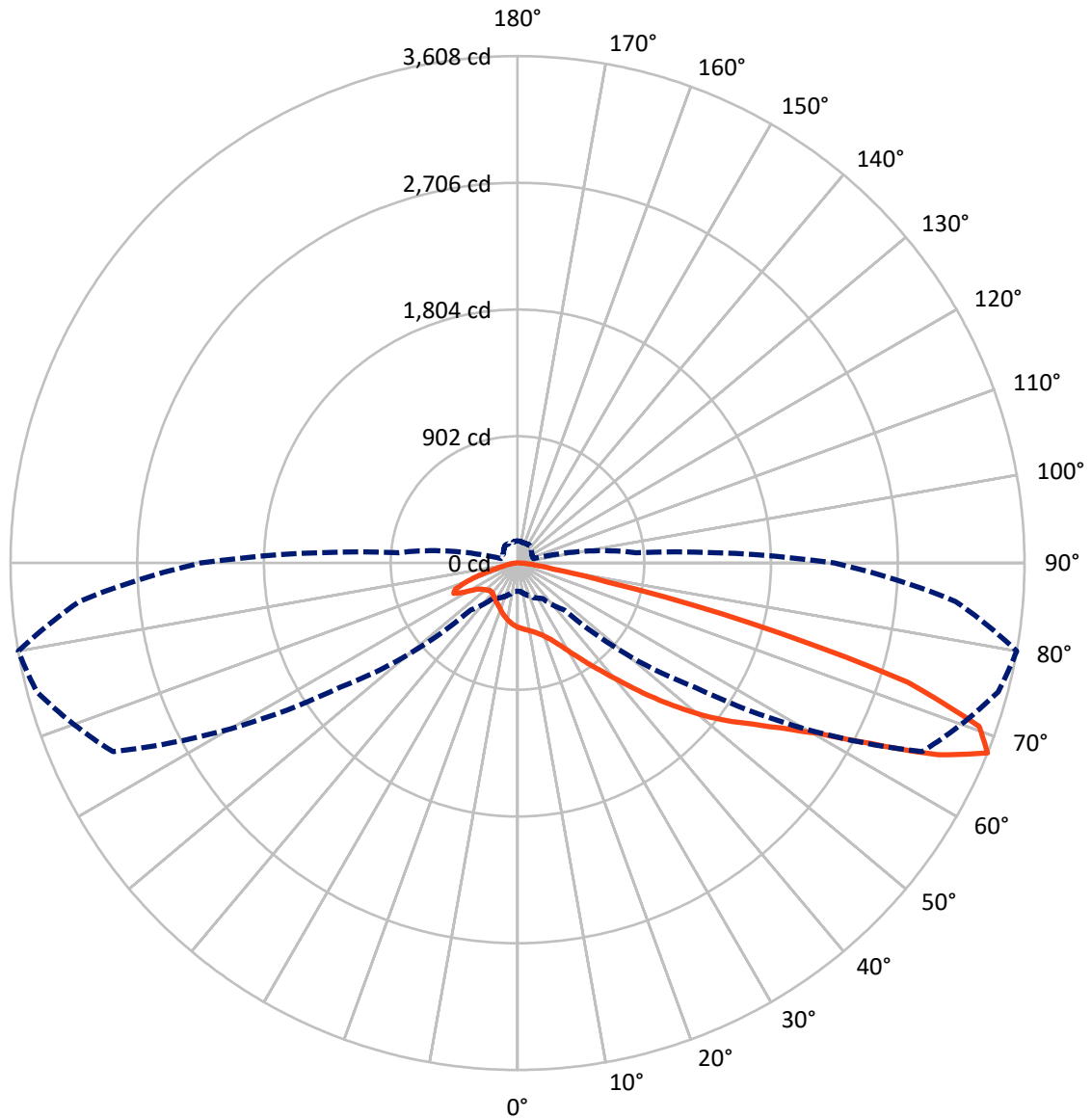


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - Full Cutoff

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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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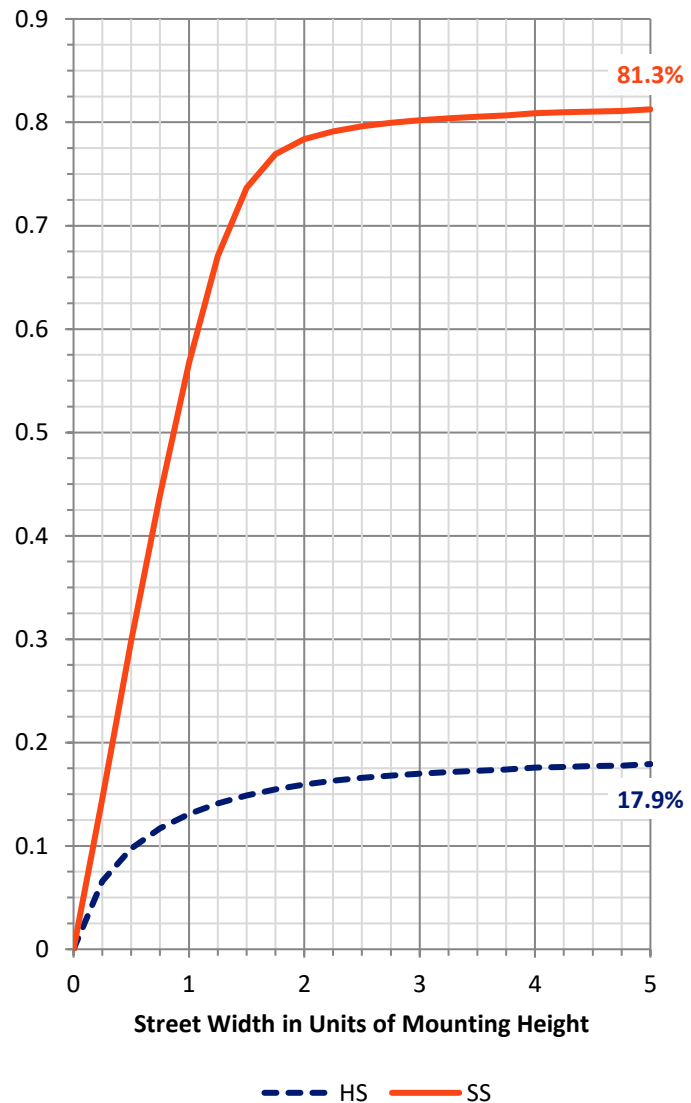
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.5	0.0	605.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	2682.5	0.0	2682.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	3288.0	0.0	3288.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	1.3
10°-20°	121.4	3.7
20°-30°	200.9	6.1
30°-40°	328.7	10.0
40°-50°	530.6	16.1
50°-60°	766.1	23.3
60°-70°	845.4	25.7
70°-80°	389.7	11.9
80°-90°	63.0	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°	3288.0	100.0
0°-180°	3288.0	100.0



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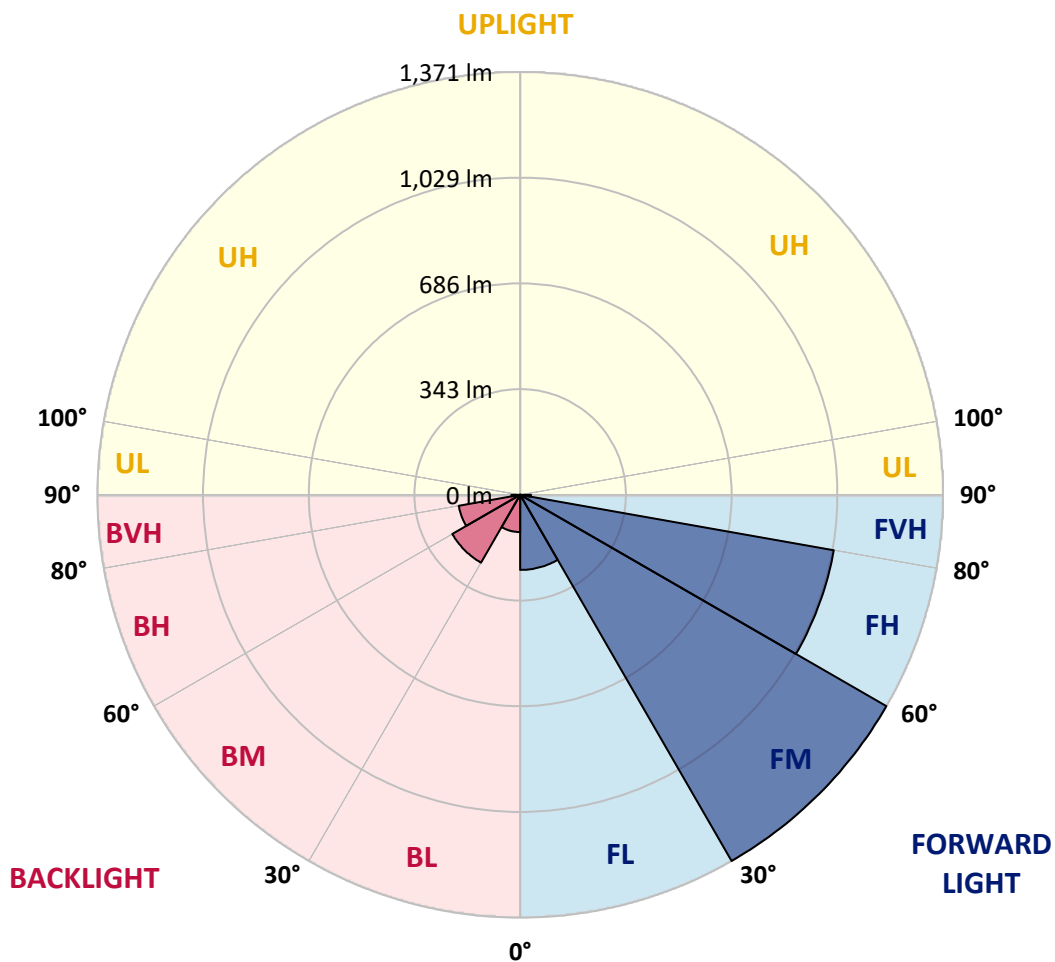
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.6	7.4			
FM	(30°-60°)	1371.3	41.7			
FH	(60°-80°)	1032.8	31.4			G1/1800
FVH	(80°-90°)	34.7	1.1			G1/100
BL	(0°-30°)	120.8	3.7	B1/500		
BM	(30°-60°)	254.1	7.7	B1/1000		
BH	(60°-80°)	202.3	6.2	B1/500		G1/500
BVH	(80°-90°)	28.4	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°	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8
2.5°	499.7	496.8	497.3	496.5	494.0	489.8	485.3	477.0	468.5	463.9	460.4
5°	541.5	540.6	539.5	536.9	530.8	522.0	511.2	496.6	480.9	472.7	464.7
7.5°	572.7	572.2	570.8	569.1	563.1	552.6	536.3	515.6	492.7	481.4	469.1
10°	575.3	576.1	577.2	581.6	582.4	576.7	560.1	535.0	505.0	490.5	474.8
12.5°	553.3	555.1	559.4	570.6	582.4	589.4	580.8	555.4	519.4	501.8	481.9
15°	524.1	525.1	530.4	545.8	567.0	588.6	596.7	577.9	538.1	516.4	492.6
17.5°	511.7	512.2	515.9	526.1	545.8	576.6	605.6	602.3	560.9	534.5	505.7
20°	505.4	506.5	511.8	521.9	534.3	561.2	606.9	628.7	588.1	557.2	522.2
22.5°	523.3	522.8	524.8	529.8	540.3	556.5	605.9	655.9	622.7	586.3	543.7
25°	565.3	567.0	563.6	558.0	561.4	572.7	611.1	685.4	666.1	623.7	571.9
27.5°	625.0	623.2	618.2	604.9	597.9	602.8	628.2	717.1	720.0	672.9	609.1
30°	684.6	683.1	678.2	662.1	647.8	643.8	661.6	753.5	784.3	732.0	654.8
32.5°	746.4	744.8	740.2	724.0	706.9	697.5	709.0	795.6	860.0	802.6	708.5
35°	822.6	819.6	810.0	787.5	770.7	763.4	768.7	848.5	947.4	886.1	773.7
37.5°	894.3	899.0	889.3	858.2	836.4	833.8	839.8	913.1	1041.6	979.5	848.7
40°	966.4	967.2	958.4	933.0	910.5	906.3	921.4	991.5	1152.8	1091.2	939.8
42.5°	1040.8	1042.4	1027.7	1004.2	987.7	988.5	1005.7	1083.2	1280.4	1222.8	1044.7
45°	1129.0	1131.5	1115.3	1084.5	1069.5	1099.7	1092.6	1186.2	1420.3	1372.3	1165.1
47.5°	1221.3	1225.0	1212.7	1183.9	1165.1	1206.7	1179.6	1300.3	1570.8	1532.8	1297.4
50°	1271.7	1277.0	1289.0	1286.9	1282.8	1275.9	1276.5	1422.7	1726.0	1699.8	1433.4
52.5°	1244.6	1244.5	1288.2	1341.3	1397.9	1402.1	1394.7	1551.7	1871.1	1863.1	1561.4
55°	1121.0	1129.4	1195.6	1298.4	1453.1	1549.7	1571.8	1699.5	2013.5	2022.7	1691.4
57.5°	915.1	922.0	1011.4	1154.6	1378.7	1637.5	1823.6	1914.3	2172.8	2215.8	1864.4
60°	620.6	629.0	723.7	895.8	1178.3	1588.6	2063.4	2297.6	2363.5	2461.4	2107.2
62.5°	364.7	372.3	449.5	565.1	829.6	1361.5	2168.6	2842.9	2666.3	2831.9	2477.6
65°	251.1	256.2	293.8	351.7	476.7	917.0	2038.1	3219.4	3132.4	3291.0	2907.0
67.5°	202.0	201.4	231.2	270.6	306.9	472.8	1541.2	3176.9	3542.2	3608.4	3129.9
70°	166.4	165.8	186.0	218.7	245.2	266.3	839.5	2680.9	3458.7	3485.6	2924.7
72.5°	139.2	139.9	152.8	177.1	201.2	200.6	368.9	1886.0	2720.9	2906.7	2331.4
75°	117.5	117.8	126.4	143.6	163.3	161.5	200.1	1021.7	1581.6	1711.0	1292.4
77.5°	100.0	100.4	105.9	115.4	129.5	128.8	146.0	441.4	659.8	651.7	442.1
80°	89.2	89.2	91.8	93.6	101.3	98.4	108.3	212.1	278.9	257.5	176.4
82.5°	69.9	70.3	86.1	85.5	79.8	76.1	76.1	125.0	147.8	136.6	103.3
85°	39.3	39.2	55.5	67.0	70.3	53.6	53.1	69.9	80.4	70.9	50.0
87.5°	16.8	17.2	25.7	29.8	39.8	33.3	32.9	36.1	41.0	35.4	23.1
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°	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8
2.5°	457.0	452.8	443.5	432.0	421.7	414.9	408.7	399.8	400.3	394.2	389.6
5°	456.6	447.9	426.5	401.1	376.7	359.0	345.8	333.8	330.9	325.2	321.8
7.5°	457.0	442.7	406.8	366.2	335.9	313.5	302.2	295.9	294.4	292.5	292.7
10°	458.1	438.0	385.1	333.5	301.7	287.0	284.2	286.2	288.5	289.1	289.3
12.5°	460.7	433.8	361.3	304.3	280.4	275.8	280.5	287.2	291.5	293.6	293.5
15°	466.5	430.6	338.5	281.5	268.5	271.0	279.7	289.1	295.4	298.3	298.5
17.5°	472.8	425.9	315.0	264.0	259.8	266.0	276.8	287.8	295.6	298.8	299.5
20°	481.1	420.1	290.4	250.9	251.5	258.5	268.7	279.7	288.3	291.0	292.3
22.5°	491.9	413.7	268.9	240.2	242.2	247.5	255.4	265.0	272.4	273.7	274.9
25°	506.5	406.9	251.7	230.5	231.3	234.4	239.7	245.4	250.6	249.1	250.3
27.5°	526.1	401.1	238.9	221.6	220.1	220.8	223.5	225.3	228.1	224.0	224.5
30°	549.1	394.8	229.0	213.8	209.8	208.7	209.3	210.3	212.4	206.9	206.1
32.5°	575.8	387.2	219.8	207.0	201.4	199.1	199.4	202.0	210.1	206.7	204.9
35°	606.9	378.6	210.1	199.6	195.7	192.5	192.1	200.2	224.4	222.2	220.6
37.5°	643.3	370.0	200.4	191.2	191.5	187.9	186.8	196.0	227.1	218.8	217.7
40°	689.6	365.5	192.1	182.3	186.3	185.8	183.6	188.3	209.0	193.9	192.0
42.5°	746.9	366.2	186.0	172.7	180.2	185.3	181.8	181.9	189.4	178.1	176.3
45°	817.6	373.8	181.6	165.1	173.2	184.9	181.1	178.5	179.2	173.2	172.2
47.5°	900.2	389.5	178.5	158.8	166.6	183.1	181.0	177.6	176.1	172.9	172.1
50°	991.9	412.3	176.3	152.8	160.6	180.2	181.1	176.6	175.0	173.7	173.2
52.5°	1082.1	438.3	172.9	147.6	155.9	176.6	181.6	175.6	173.8	172.9	172.4
55°	1182.6	470.9	167.7	143.3	152.0	172.1	181.6	174.2	172.2	172.4	172.2
57.5°	1318.4	523.5	161.5	139.5	147.3	166.6	178.5	172.6	170.1	170.3	170.4
60°	1530.6	616.2	154.1	135.8	141.5	160.1	174.3	169.0	166.6	167.2	167.4
62.5°	1842.7	752.4	144.4	130.3	135.3	153.1	168.5	164.5	162.0	163.7	163.7
65°	2167.1	872.5	132.4	123.3	128.8	145.5	161.2	158.8	156.4	160.1	159.9
67.5°	2254.4	845.6	120.4	115.7	122.4	137.1	152.5	151.2	149.9	156.4	156.0
70°	2002.7	678.9	109.4	108.0	115.3	128.0	143.1	143.1	142.3	147.1	146.0
72.5°	1525.8	481.4	98.9	99.7	107.2	118.2	132.9	134.0	132.7	135.2	134.2
75°	816.8	275.5	88.4	90.6	97.1	108.1	121.6	122.7	121.9	121.7	122.2
77.5°	271.5	134.7	77.4	80.9	86.6	97.8	109.7	111.5	109.6	109.3	109.1
80°	120.9	84.7	65.2	69.9	74.9	86.0	97.3	98.7	96.6	99.6	95.8
82.5°	77.7	55.7	52.3	57.5	62.3	74.1	84.8	85.1	83.2	96.6	82.4
85°	37.7	34.5	39.3	44.0	48.2	58.3	70.3	70.4	65.6	59.7	57.6
87.5°	18.8	20.1	26.2	30.4	32.5	40.0	51.2	50.2	48.1	43.7	40.3
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)