

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: P269162

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL4-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9884.5 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 96  
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

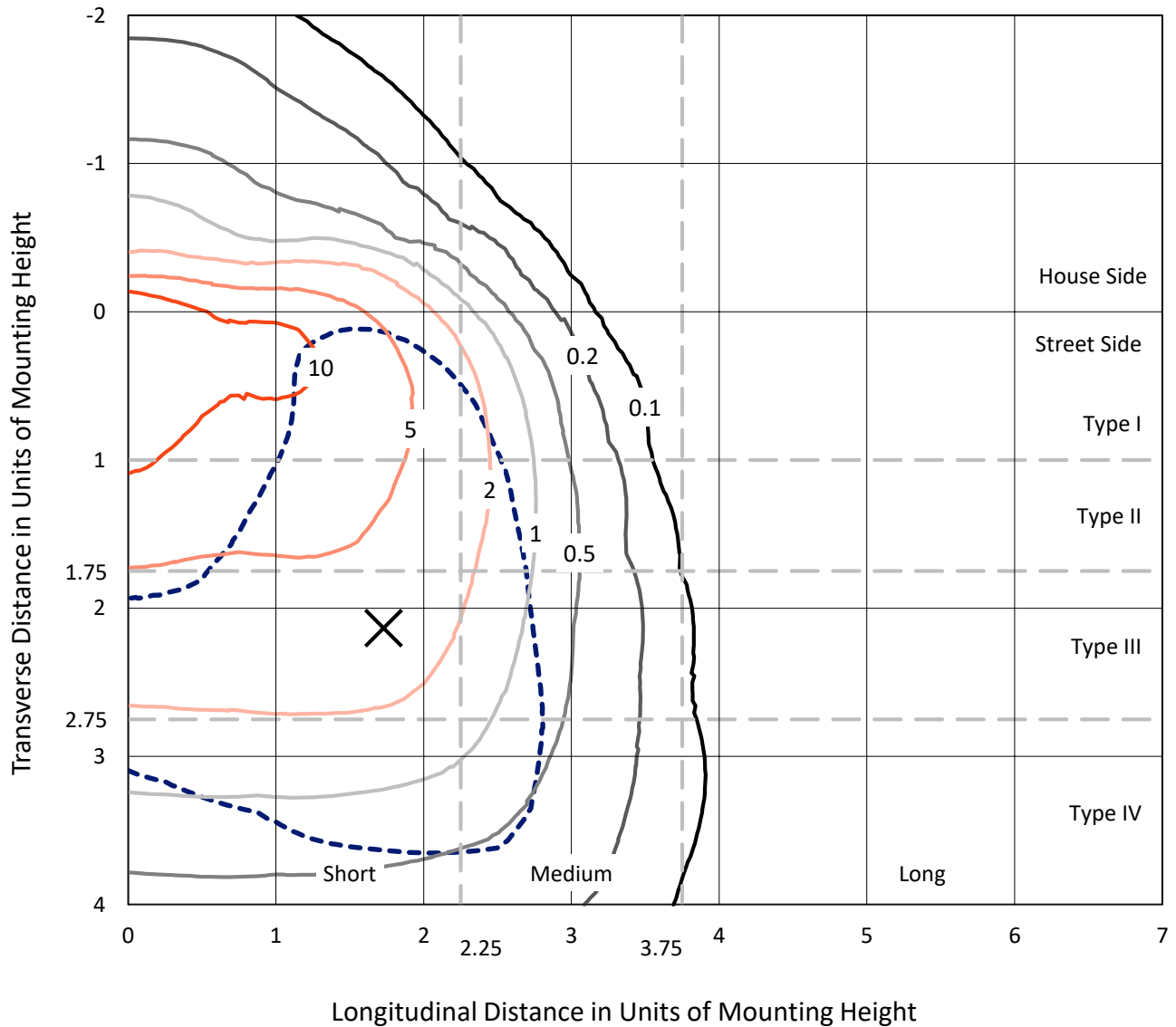


REPORT NUMBER: P269162

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

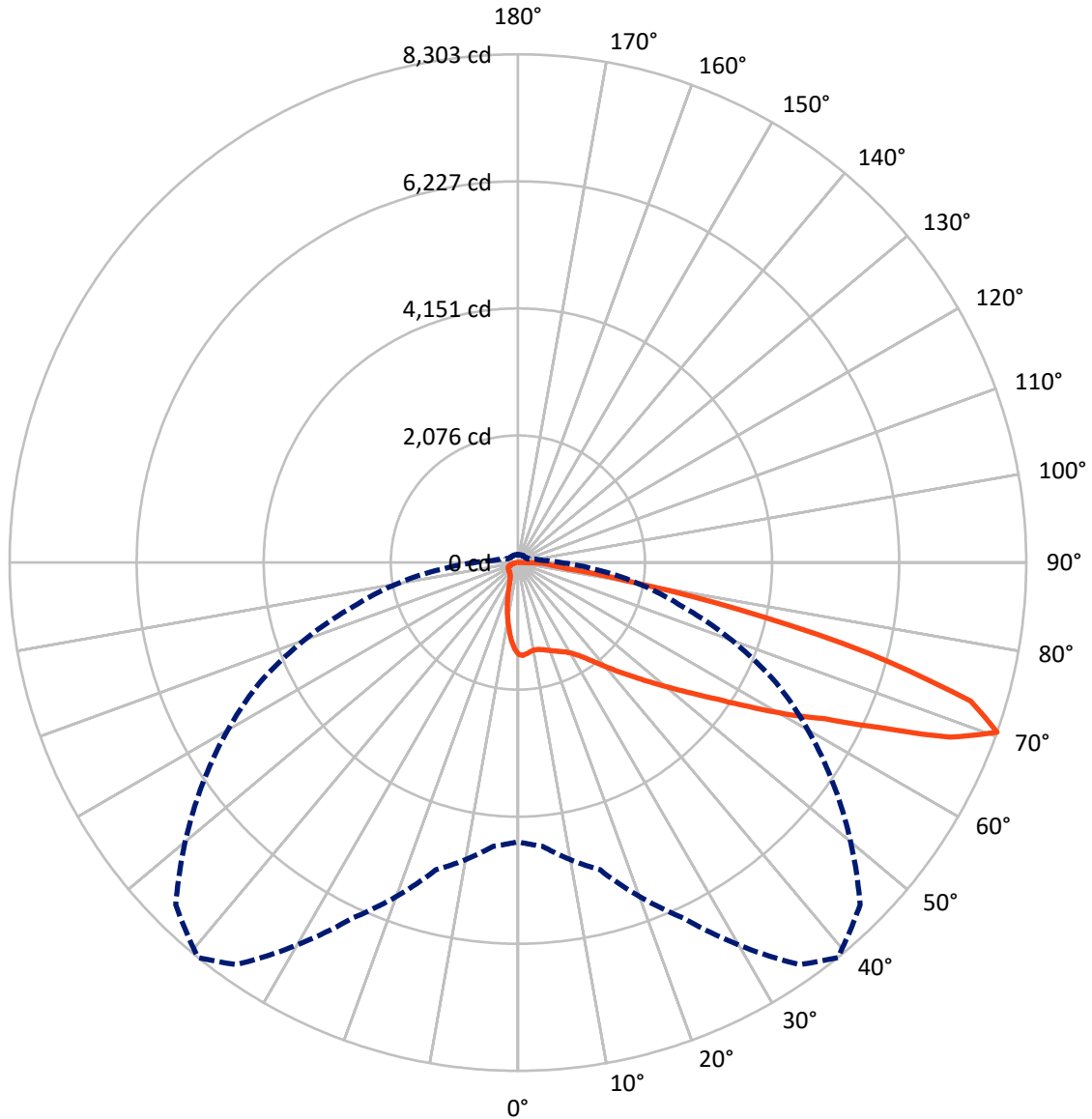
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269162  
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7027-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P269162

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1124.2	0.0	1124.2
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	8760.3	0.0	8760.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	9884.5	0.0	9884.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	1.3
10°-20°	321.9	3.3
20°-30°	501.2	5.1
30°-40°	780.8	7.9
40°-50°	1310.8	13.3
50°-60°	2082.4	21.1
60°-70°	2777.7	28.1
70°-80°	1677.4	17.0
80°-90°	303.6	3.1
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°	9884.5	100.0
0°-180°	9884.5	100.0



REPORT NUMBER: P269162

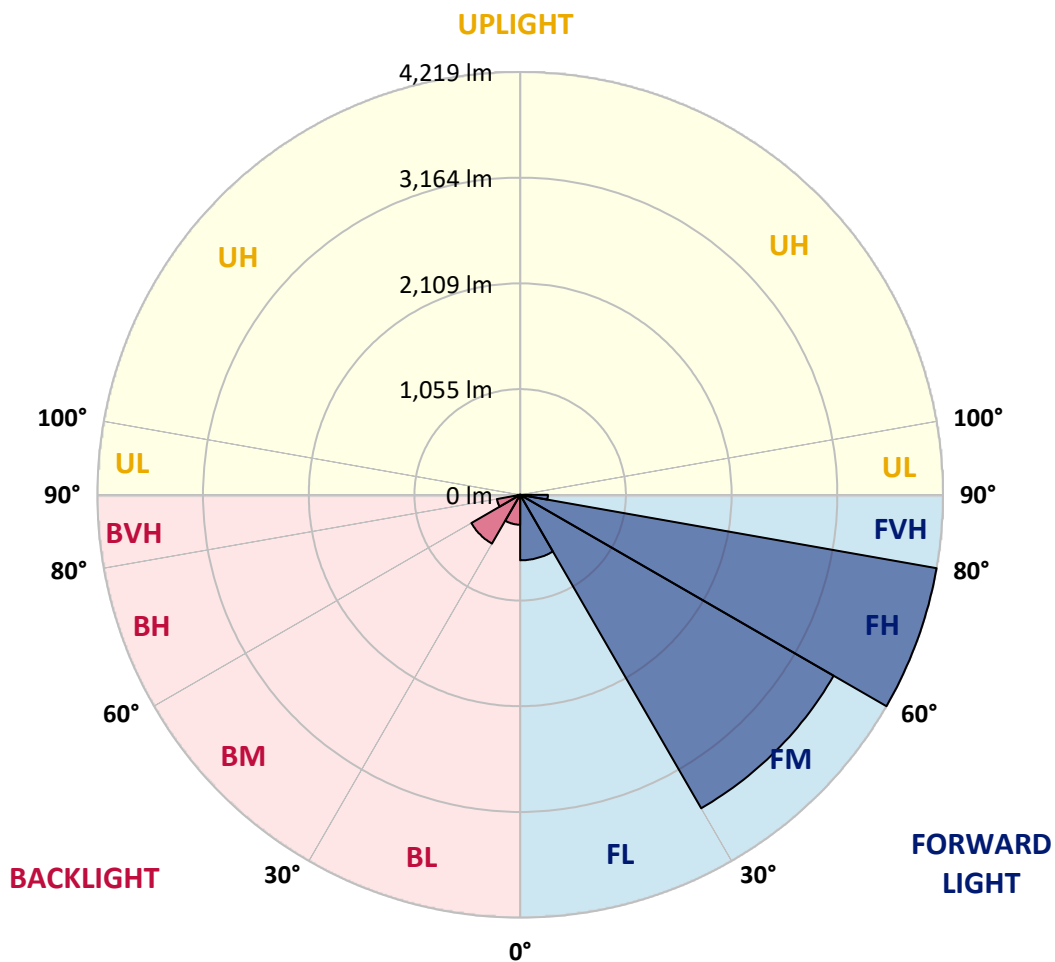
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7027-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.7	6.6			
FM	(30°-60°)	3611.4	36.5			
FH	(60°-80°)	4219.0	42.7			G2/5000
FVH	(80°-90°)	276.2	2.8			G3/500
BL	(0°-30°)	298.2	3.0	B1/500		
BM	(30°-60°)	562.6	5.7	B1/1000		
BH	(60°-80°)	236.0	2.4	B1/500		G1/500
BVH	(80°-90°)	27.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P269162

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6
2.5°	1529.8	1529.3	1525.2	1522.3	1519.8	1518.8	1520.7	1513.1	1506.6	1498.6	1490.1
5°	1518.2	1517.6	1511.2	1505.1	1499.1	1497.0	1496.5	1483.0	1474.9	1462.9	1446.8
7.5°	1505.6	1503.1	1494.6	1484.4	1473.9	1469.0	1464.0	1446.4	1437.3	1425.3	1406.7
10°	1492.5	1489.6	1481.6	1471.5	1461.5	1453.8	1445.4	1428.2	1418.8	1409.7	1388.1
12.5°	1479.0	1476.5	1474.5	1469.9	1462.9	1456.4	1449.9	1435.3	1425.3	1414.7	1389.6
15°	1477.1	1475.9	1480.5	1483.6	1479.5	1475.5	1468.5	1456.0	1445.4	1434.9	1402.2
17.5°	1493.2	1492.5	1504.1	1512.1	1510.2	1503.1	1493.6	1479.5	1471.0	1461.9	1421.2
20°	1528.2	1530.8	1544.8	1555.3	1545.4	1535.4	1519.8	1500.1	1495.6	1491.5	1440.8
22.5°	1594.6	1597.0	1607.2	1611.2	1585.1	1570.4	1548.9	1523.7	1520.7	1523.7	1464.4
25°	1698.2	1695.6	1694.2	1679.0	1631.3	1608.7	1581.0	1554.8	1556.5	1570.0	1497.7
27.5°	1835.2	1821.8	1800.7	1755.4	1679.6	1654.4	1620.7	1596.6	1606.2	1632.3	1547.4
30°	1977.6	1962.4	1913.7	1839.9	1742.8	1715.3	1677.6	1650.4	1675.5	1716.8	1613.6
32.5°	2109.2	2107.2	2035.9	1940.9	1830.2	1806.2	1768.5	1737.9	1778.6	1841.3	1713.2
35°	2252.9	2257.5	2172.0	2057.9	1948.5	1923.4	1896.1	1873.1	1927.4	2013.7	1857.4
37.5°	2406.6	2415.7	2314.8	2186.0	2083.1	2072.5	2056.4	2046.3	2130.3	2250.0	2058.9
40°	2612.4	2603.2	2463.1	2330.8	2248.4	2247.9	2242.9	2254.9	2394.6	2558.6	2317.7
42.5°	2832.4	2805.8	2620.3	2486.1	2429.8	2447.0	2457.0	2506.2	2712.8	2933.3	2633.4
45°	3069.6	3009.9	2783.7	2650.4	2631.3	2667.5	2701.7	2808.8	3087.1	3360.1	2979.0
47.5°	3259.1	3201.3	2952.5	2822.8	2864.5	2919.3	2985.2	3154.5	3506.4	3800.8	3320.3
50°	3408.3	3370.6	3122.9	3023.9	3121.3	3205.8	3313.3	3546.0	3942.5	4229.9	3636.5
52.5°	3553.1	3524.9	3294.8	3229.9	3422.9	3539.5	3685.7	3966.1	4389.7	4652.1	3902.2
55°	3683.7	3663.6	3479.7	3486.7	3777.7	3929.5	4113.3	4444.5	4877.3	5028.5	4127.4
57.5°	3830.9	3805.3	3690.7	3808.9	4233.5	4430.5	4669.7	4982.3	5334.6	5363.2	4298.7
60°	3979.2	3957.2	3925.0	4180.7	4812.4	5019.5	5246.1	5503.5	5798.4	5623.0	4288.8
62.5°	4107.9	4110.4	4167.1	4571.3	5379.3	5619.1	5895.4	6149.7	6218.1	5668.2	3971.6
65°	4326.0	4365.7	4535.1	5124.0	6177.4	6498.0	6837.2	6796.4	6334.2	5245.7	3291.7
67.5°	4585.3	4655.1	4998.3	5860.7	7186.0	7611.7	7742.9	6942.8	5869.3	4264.2	2346.5
70°	4559.2	4655.1	5198.4	6410.0	8017.3	8302.7	7904.6	6283.5	4660.6	2785.6	1246.3
72.5°	4048.5	4185.7	4790.8	6158.3	7755.3	7730.3	6862.3	4684.3	2769.0	1118.7	487.1
75°	3085.7	3224.3	3745.0	4865.2	6129.7	5918.6	4869.3	2587.7	1050.8	444.2	307.1
77.5°	1775.1	1882.6	2284.6	2983.6	3888.8	3672.1	2710.2	1150.9	511.7	309.6	239.7
80°	991.0	1050.8	1295.0	1513.6	1905.7	1746.8	1212.6	715.1	381.9	224.7	185.0
82.5°	783.5	836.7	1047.3	954.9	870.4	803.1	696.5	636.7	305.1	141.8	110.5
85°	684.5	735.3	886.4	751.8	594.5	545.4	565.9	626.7	237.2	85.3	94.5
87.5°	634.3	702.0	790.0	579.4	462.8	410.0	522.2	687.1	76.4	53.3	38.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269162

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7027-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6	1500.6
2.5°	1482.6	1474.5	1461.5	1449.9	1431.8	1422.2	1411.6	1404.1	1398.1	1393.1	1401.1
5°	1436.7	1421.7	1394.1	1364.4	1329.2	1301.6	1278.5	1256.9	1241.7	1231.8	1238.9
7.5°	1393.6	1368.9	1325.7	1272.0	1211.6	1160.4	1118.2	1081.0	1055.4	1038.8	1045.3
10°	1368.9	1338.3	1271.5	1187.0	1098.1	1018.1	951.8	894.5	854.8	832.2	835.8
12.5°	1362.9	1323.3	1230.8	1114.6	993.0	882.0	788.5	709.1	653.2	624.1	625.2
15°	1367.4	1316.6	1192.6	1045.3	891.5	751.3	634.7	538.3	473.3	440.2	439.7
17.5°	1374.9	1311.6	1152.3	970.3	788.5	625.7	495.5	401.1	343.7	317.1	315.0
20°	1383.0	1303.6	1107.2	889.5	681.5	509.1	388.0	314.0	277.9	263.4	262.3
22.5°	1394.6	1296.6	1060.4	804.2	576.4	414.6	319.1	269.4	250.3	242.7	241.7
25°	1413.2	1293.1	1010.7	715.1	481.9	346.7	277.9	247.3	236.3	231.1	230.7
27.5°	1444.4	1298.1	963.9	628.8	405.0	301.0	254.8	236.3	228.2	223.7	223.0
30°	1484.4	1313.7	914.7	546.8	345.3	269.9	240.7	228.7	222.2	217.6	217.6
32.5°	1551.4	1339.8	862.9	475.9	302.5	248.2	230.1	222.2	216.6	213.1	212.5
35°	1649.8	1389.0	814.7	417.2	271.8	232.8	221.2	215.1	211.1	209.0	209.0
37.5°	1793.0	1466.9	772.0	375.0	253.3	222.2	212.5	208.0	205.5	205.5	205.5
40°	1985.6	1574.5	737.2	346.7	242.7	214.5	206.0	202.5	201.0	201.5	201.5
42.5°	2223.2	1714.1	714.2	327.2	237.7	210.1	201.5	198.5	197.0	196.5	197.0
45°	2494.1	1873.1	711.5	312.6	232.8	207.1	198.5	195.6	192.4	190.5	190.5
47.5°	2757.4	2034.3	732.2	307.6	227.1	203.6	196.0	193.0	188.5	184.0	184.0
50°	2990.2	2171.6	759.8	309.6	225.1	198.5	192.0	190.5	183.4	178.5	178.0
52.5°	3175.1	2277.1	782.5	315.7	227.1	195.0	186.9	187.4	179.9	174.5	173.9
55°	3323.4	2346.5	776.5	321.7	231.7	193.0	182.4	183.4	177.3	171.8	171.8
57.5°	3388.1	2320.9	709.7	316.7	235.1	193.4	178.9	183.0	178.0	172.8	172.8
60°	3249.0	2093.1	584.4	294.6	230.7	192.0	177.3	185.0	184.4	179.4	178.9
62.5°	2827.9	1685.6	453.4	261.9	215.1	184.4	173.5	184.4	189.9	188.5	187.9
65°	2179.6	1200.6	346.2	226.6	193.9	171.8	162.9	172.8	180.4	182.4	181.9
67.5°	1414.7	735.7	266.8	193.4	170.4	157.4	149.3	153.8	155.2	155.2	154.2
70°	695.6	396.1	212.5	162.9	146.2	141.8	137.3	134.7	132.2	130.2	130.2
72.5°	343.2	258.8	174.9	137.7	126.1	124.1	123.1	120.2	118.0	115.6	114.5
75°	253.9	210.6	148.8	116.2	108.5	106.5	108.5	106.0	105.6	103.6	102.5
77.5°	208.5	179.4	128.2	99.5	93.0	89.4	92.4	93.0	93.5	90.5	89.4
80°	169.4	151.8	107.1	82.5	76.4	73.9	75.8	79.9	80.8	76.4	74.4
82.5°	122.1	124.1	86.4	64.3	59.3	57.3	61.4	66.4	67.4	60.8	59.3
85°	102.5	103.6	66.4	45.8	40.8	37.6	44.2	49.2	52.8	46.3	44.7
87.5°	42.7	60.8	38.2	25.6	22.5	19.7	23.6	26.1	31.7	29.1	28.7
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)