

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: P269194

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10464.5 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

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

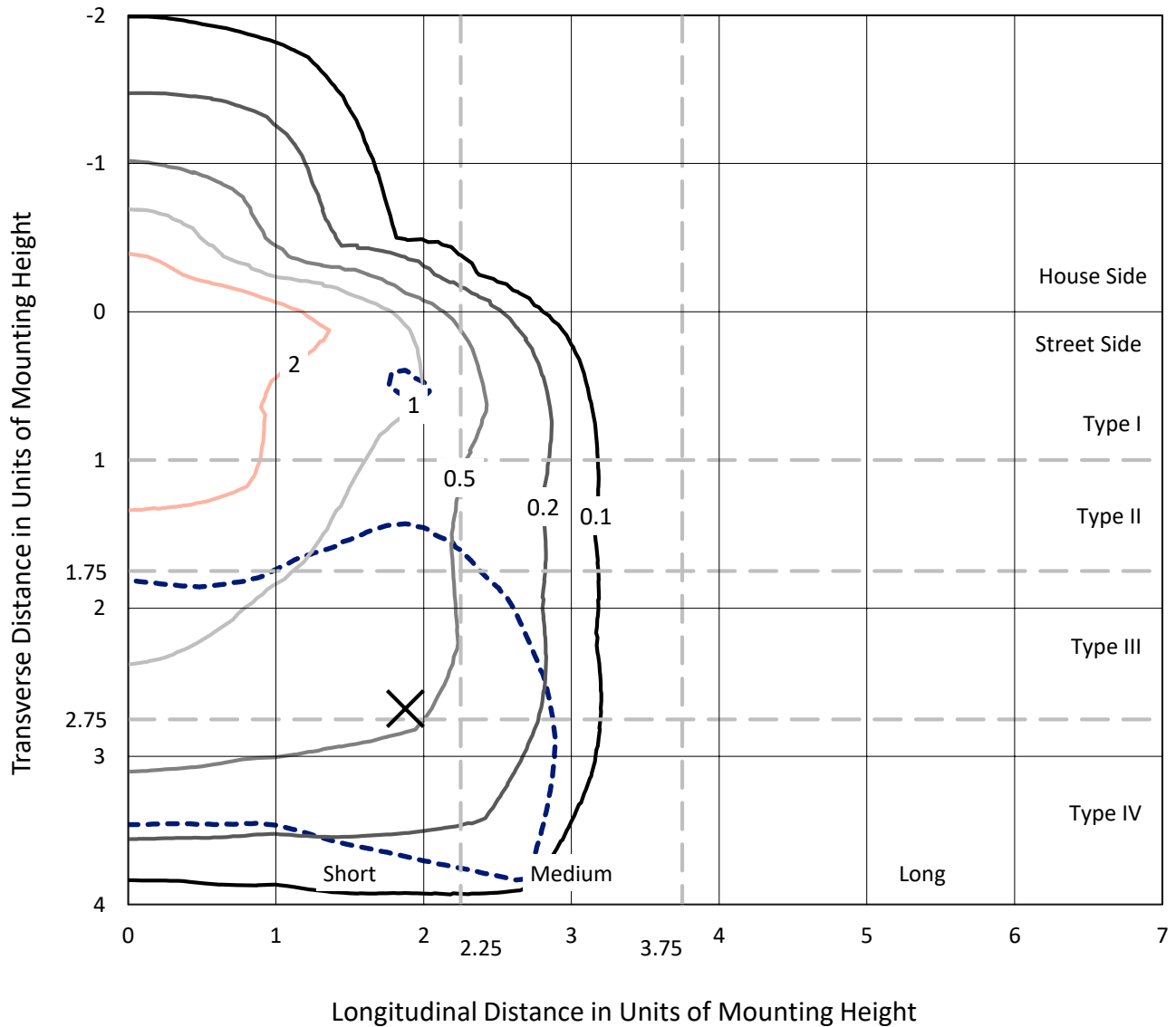


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

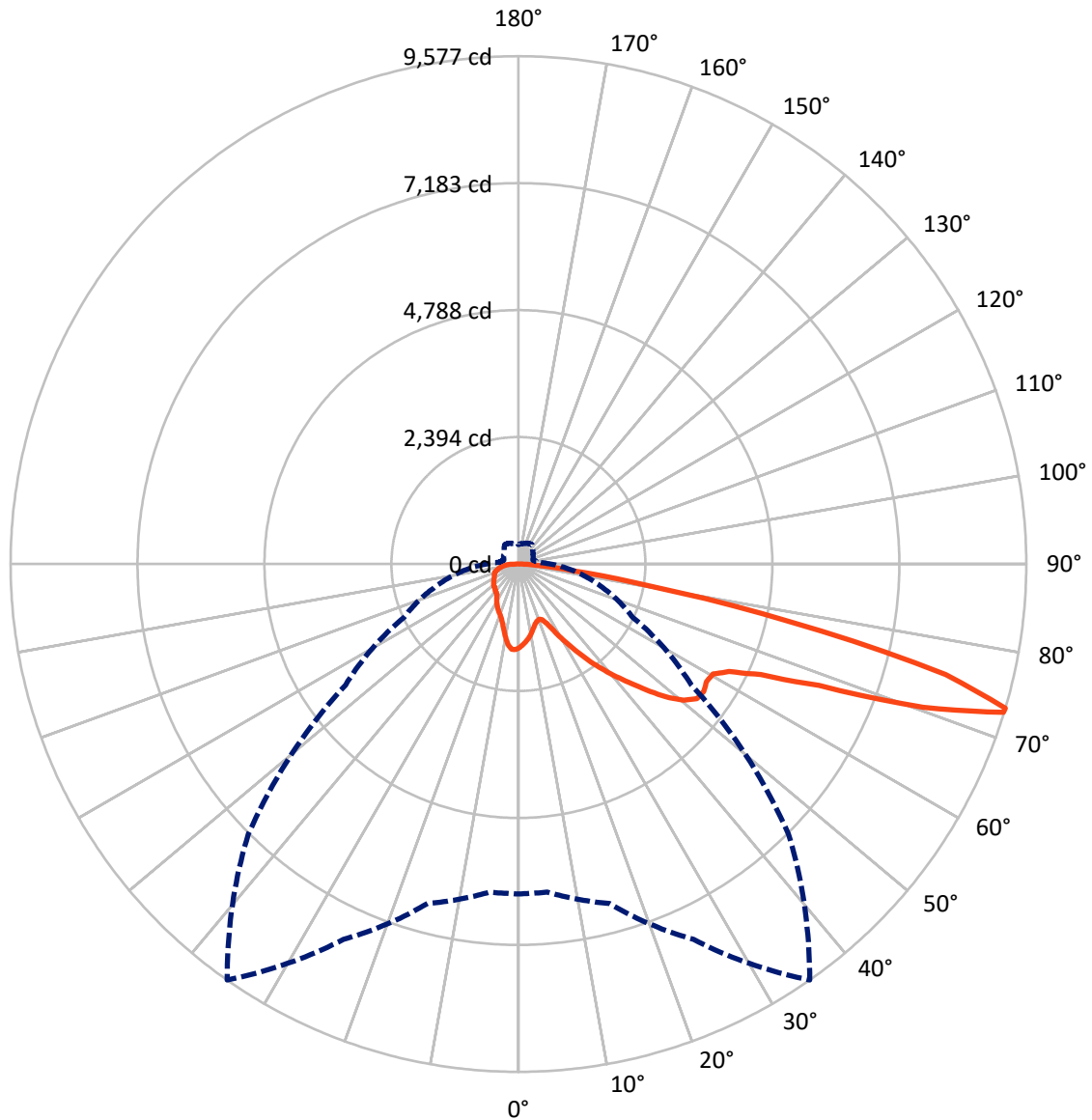


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1995.9	0.0	1995.9
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	8468.7	0.0	8468.7
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	10464.5	0.0	10464.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	1.4
10°-20°	356.9	3.4
20°-30°	576.9	5.5
30°-40°	967.4	9.2
40°-50°	1491.2	14.3
50°-60°	2000.7	19.1
60°-70°	2665.3	25.5
70°-80°	2032.8	19.4
80°-90°	230.4	2.2
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°	10464.5	100.0
0°-180°	10464.5	100.0



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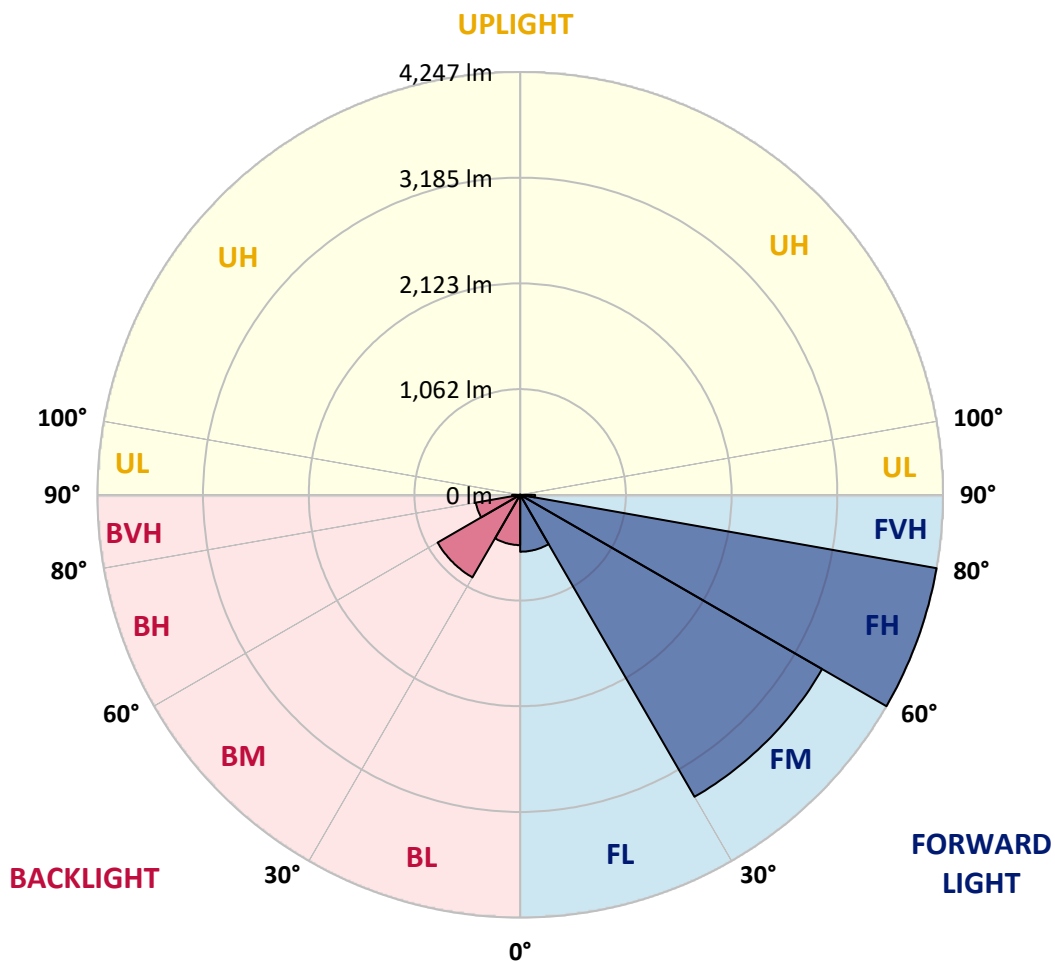
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.7	5.5			
FM	(30°-60°)	3501.5	33.5			
FH	(60°-80°)	4246.5	40.6			G2/5000
FVH	(80°-90°)	148.9	1.4			G2/225
BL	(0°-30°)	505.1	4.8	B2/1000		
BM	(30°-60°)	957.8	9.2	B1/1000		
BH	(60°-80°)	451.6	4.3	B1/500		G1/500
BVH	(80°-90°)	81.5	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4
2.5°	1517.1	1520.1	1516.6	1521.1	1528.6	1536.7	1542.2	1550.2	1559.3	1571.9	1574.9
5°	1445.7	1450.3	1450.3	1458.3	1473.0	1485.9	1498.1	1511.0	1530.3	1551.8	1560.4
7.5°	1367.4	1369.8	1374.3	1386.4	1407.6	1426.1	1443.2	1464.3	1490.5	1519.2	1534.1
10°	1272.9	1276.4	1283.5	1300.6	1329.1	1354.9	1379.3	1408.5	1441.7	1477.4	1496.4
12.5°	1206.1	1205.0	1208.1	1220.6	1245.8	1276.9	1312.7	1349.8	1390.4	1432.2	1455.3
15°	1183.4	1177.9	1166.4	1163.3	1176.9	1208.1	1249.3	1294.9	1343.8	1394.0	1422.6
17.5°	1197.5	1188.0	1156.3	1133.2	1131.1	1154.9	1198.5	1249.8	1306.0	1367.4	1403.1
20°	1286.0	1263.3	1185.5	1131.7	1113.1	1124.7	1162.9	1217.2	1283.5	1364.9	1410.6
22.5°	1497.6	1464.3	1298.9	1199.0	1136.1	1122.2	1150.8	1208.6	1286.0	1396.0	1454.3
25°	1805.6	1758.3	1494.1	1366.9	1237.2	1162.3	1168.9	1228.2	1321.6	1468.4	1538.7
27.5°	2048.8	2018.1	1748.8	1603.6	1421.1	1270.9	1227.7	1277.4	1394.4	1586.9	1658.8
30°	2193.5	2174.9	2021.1	1871.9	1655.8	1443.8	1340.2	1369.8	1508.6	1751.2	1810.5
32.5°	2361.4	2350.2	2274.9	2137.7	1909.1	1670.8	1518.7	1508.1	1661.3	1948.8	1975.9
35°	2535.2	2531.8	2487.4	2389.0	2180.9	1970.4	1755.3	1684.0	1827.7	2153.7	2136.7
37.5°	2697.0	2691.1	2665.5	2608.0	2465.4	2291.9	1996.6	1864.3	2007.1	2349.7	2273.9
40°	2994.9	2947.8	2859.8	2816.6	2752.9	2562.9	2188.0	2032.8	2193.0	2536.8	2392.5
42.5°	3358.4	3281.5	3117.7	3058.4	3049.2	2776.4	2318.6	2196.0	2380.5	2722.1	2509.1
45°	3644.2	3571.9	3430.6	3355.9	3389.0	2969.8	2449.8	2370.4	2573.5	2916.6	2629.2
47.5°	3949.3	3835.8	3648.8	3671.5	3743.7	3152.8	2583.4	2557.8	2784.9	3134.2	2778.5
50°	3960.4	3873.4	3791.6	3926.8	4039.3	3321.2	2750.8	2754.4	3043.7	3408.1	2977.0
52.5°	3730.8	3712.2	3842.3	4054.9	4217.2	3454.3	2941.3	2957.3	3374.9	3722.7	3195.0
55°	3650.4	3629.2	3779.4	4010.2	4241.3	3564.4	3147.8	3176.9	3775.4	4054.3	3407.6
57.5°	3846.4	3799.7	3809.6	3989.1	4182.5	3684.9	3373.0	3431.7	4210.6	4344.4	3544.4
60°	4394.1	4294.1	4104.0	4099.5	4214.2	3865.9	3633.3	3705.1	4662.9	4483.0	3491.1
62.5°	5162.4	5062.4	4706.6	4474.9	4457.8	4164.5	3952.8	3971.9	4924.1	4295.1	3165.8
65°	5994.1	5904.6	5507.1	5179.9	5022.2	4658.9	4324.3	4091.1	4838.8	3777.9	2597.0
67.5°	7003.6	6907.6	6565.9	6263.9	6112.2	5456.8	4584.9	3976.9	4296.6	2926.7	1866.9
70°	7709.8	7611.7	7477.0	7721.7	8093.1	6608.1	4618.6	3513.1	3209.1	1945.3	1123.6
72.5°	6788.6	6742.9	6988.5	8019.3	9566.1	7306.6	4175.0	2557.8	1863.9	1032.7	650.3
73°	6219.8	6209.7	6628.8	7810.8	9576.7	7199.1	3980.5	2377.5	1598.5	913.5	594.5
75°	2808.6	2889.5	3808.2	5966.0	8320.2	5932.2	2801.5	1363.8	903.1	631.1	448.8
77.5°	674.8	703.1	1191.5	2833.3	5254.4	3535.2	1269.3	674.4	577.4	445.6	327.6
80°	287.5	297.0	458.9	1046.7	2473.9	1423.6	584.9	451.8	399.4	311.1	229.6
82.5°	159.8	169.9	260.2	474.8	998.6	485.4	356.7	314.5	262.8	187.4	149.3
85°	90.5	95.9	152.3	265.3	423.1	195.0	213.5	209.0	148.2	96.5	73.4
87.5°	42.7	46.3	73.4	123.1	165.8	76.4	108.5	119.7	93.0	58.7	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



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4
2.5°	1578.4	1587.5	1598.1	1603.6	1608.5	1614.7	1620.6	1620.6	1621.6	1622.1
5°	1567.4	1586.0	1602.5	1609.6	1611.1	1611.1	1609.6	1601.6	1594.5	1597.5
7.5°	1544.2	1571.3	1585.5	1583.0	1563.9	1541.8	1523.2	1500.4	1489.0	1487.0
10°	1511.0	1542.2	1544.7	1519.7	1472.4	1425.2	1385.9	1347.7	1329.8	1325.2
12.5°	1474.4	1503.0	1487.0	1435.2	1359.3	1290.4	1240.6	1202.0	1185.0	1180.5
15°	1444.7	1464.3	1423.6	1342.2	1246.8	1173.8	1132.8	1104.0	1092.0	1088.4
17.5°	1429.2	1433.2	1358.9	1248.7	1147.2	1086.5	1060.8	1047.2	1042.8	1040.1
20°	1436.7	1408.5	1297.1	1161.9	1065.8	1023.1	1017.2	1013.6	1012.6	1011.1
22.5°	1474.4	1401.0	1240.2	1079.5	994.6	975.9	980.9	980.4	979.4	978.4
25°	1541.8	1407.6	1185.0	1001.0	934.6	930.6	939.6	939.6	935.8	935.8
27.5°	1630.8	1421.1	1123.2	926.6	880.3	880.9	888.0	886.0	881.4	878.5
30°	1739.2	1429.7	1050.7	859.8	829.7	827.7	829.7	821.1	807.5	806.6
32.5°	1850.2	1419.1	966.8	800.5	775.9	771.4	769.8	757.8	742.2	737.7
35°	1950.8	1380.4	881.4	753.3	724.7	714.6	721.6	717.6	703.6	700.0
37.5°	2024.2	1308.7	804.5	711.5	687.9	685.4	690.0	691.4	674.8	671.4
40°	2073.4	1211.0	738.6	676.5	680.9	671.4	656.3	645.7	640.8	639.2
42.5°	2113.2	1109.5	683.4	659.9	682.4	654.8	622.2	605.1	614.1	618.2
45°	2158.8	1010.6	637.2	639.2	674.8	635.7	598.5	581.9	585.4	586.5
47.5°	2221.7	890.0	587.4	606.0	649.7	622.6	583.9	560.4	543.7	536.2
50°	2308.6	747.2	535.7	568.8	625.1	613.1	561.4	536.2	505.6	498.5
52.5°	2368.9	614.1	493.0	537.6	603.0	594.0	543.3	510.5	478.3	472.4
55°	2336.2	510.1	455.8	503.1	573.8	570.3	528.2	484.5	459.4	454.4
57.5°	2172.9	444.2	427.1	470.4	538.3	550.2	508.0	462.3	444.2	440.7
60°	1861.4	403.0	409.1	448.3	509.1	530.2	488.0	450.3	438.3	435.7
62.5°	1444.2	375.4	395.4	432.2	486.4	516.0	476.9	448.8	444.2	441.2
65°	1034.7	353.3	380.9	416.1	465.9	503.1	472.9	446.7	447.7	445.2
67.5°	703.1	333.7	363.4	397.9	445.6	491.5	467.4	439.7	452.2	449.2
70°	492.0	314.5	342.8	375.0	420.5	475.5	457.2	429.2	428.1	416.1
72.5°	383.9	289.4	314.5	342.8	388.4	452.7	437.1	405.6	389.0	376.4
73°	366.4	283.4	307.5	335.6	381.4	447.3	431.6	398.9	380.4	368.8
75°	303.0	257.3	279.5	304.5	351.2	421.1	404.5	369.4	345.8	338.8
77.5°	238.2	220.2	241.3	263.8	309.6	382.9	364.4	330.7	317.6	311.5
80°	176.3	182.4	201.0	221.2	268.4	342.3	325.6	291.9	350.2	335.6
82.5°	124.1	138.2	155.2	173.4	225.1	302.5	282.3	247.8	256.2	213.1
85°	73.4	90.5	106.4	122.1	162.4	250.7	233.2	197.4	161.9	154.2
87.5°	42.7	50.2	54.7	70.8	111.6	189.0	164.3	146.2	83.9	56.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)