

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: P322667

Luminaire Tested: **GLEON-SA3A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7428 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

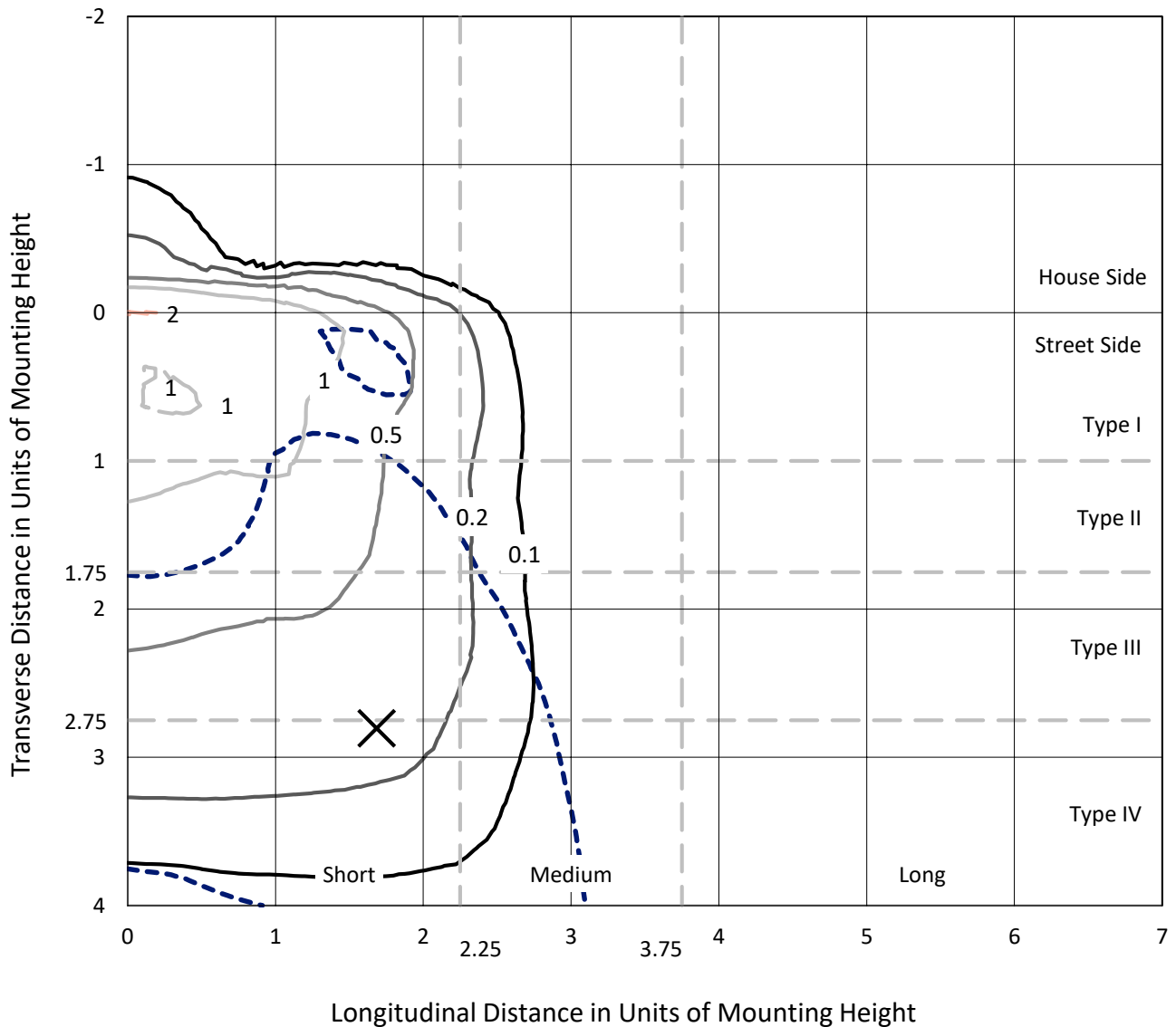
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

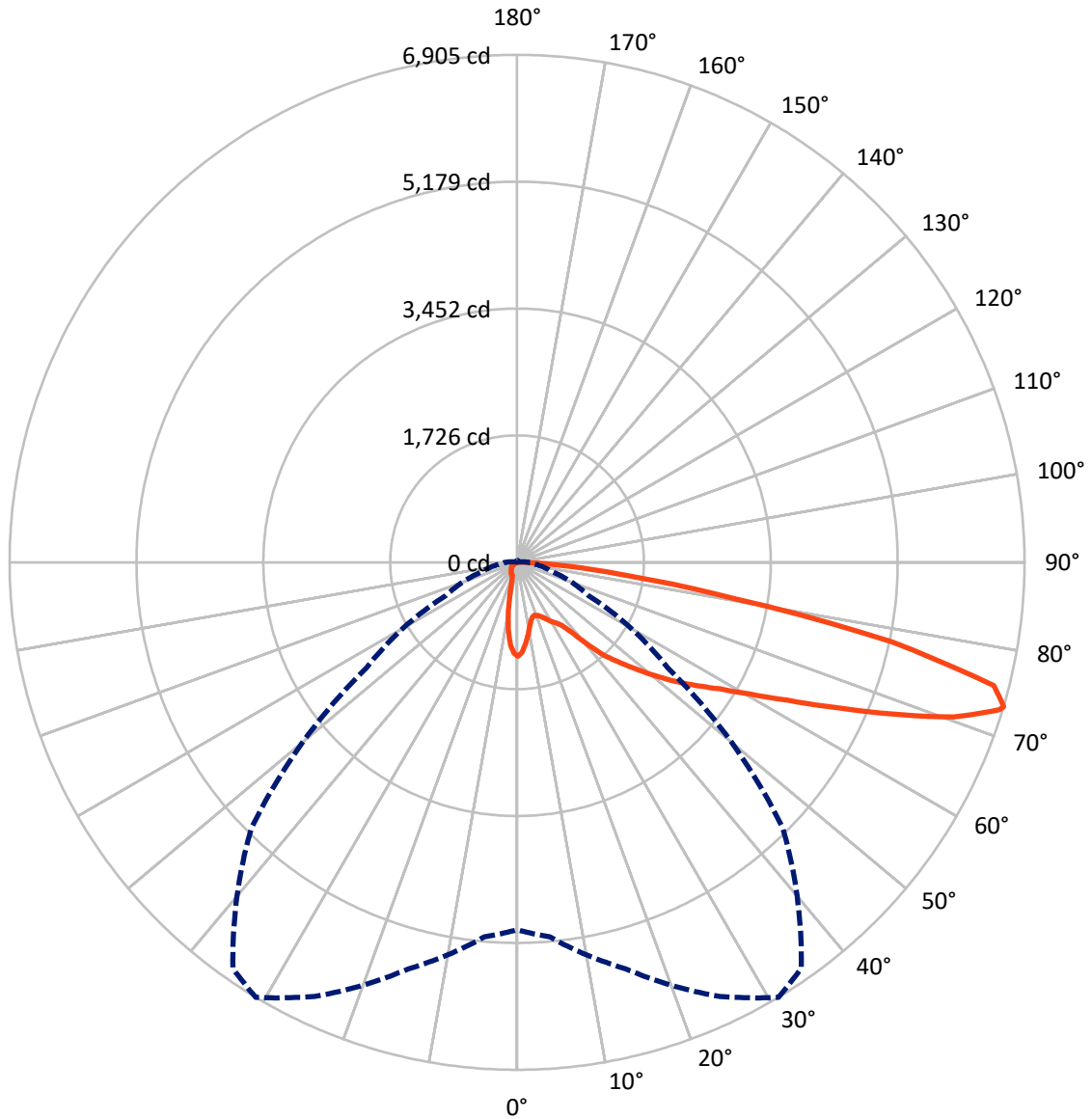
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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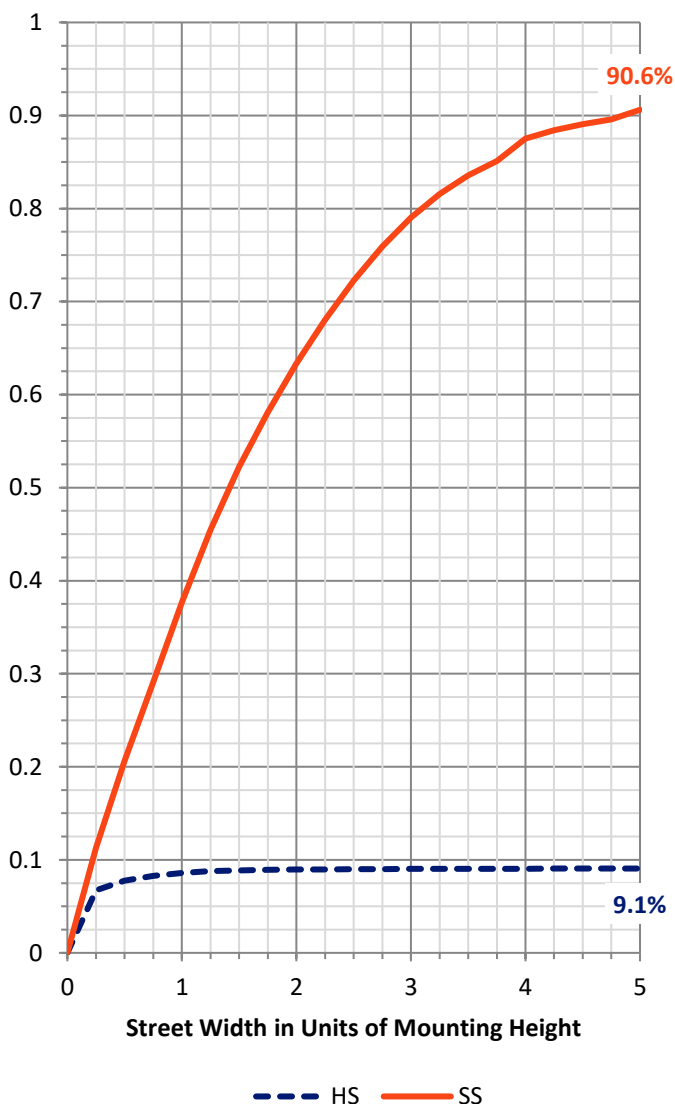
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	677.1	0.0	677.1
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	6750.9	0.0	6750.9
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	7428.0	0.0	7428.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	1.4
10°-20°	230.1	3.1
20°-30°	344.7	4.6
30°-40°	548.5	7.4
40°-50°	979.4	13.2
50°-60°	1519.7	20.5
60°-70°	2020.3	27.2
70°-80°	1519.7	20.5
80°-90°	159.7	2.1
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°	7428.0	100.0
0°-180°	7428.0	100.0

**Coefficient of Utilization**

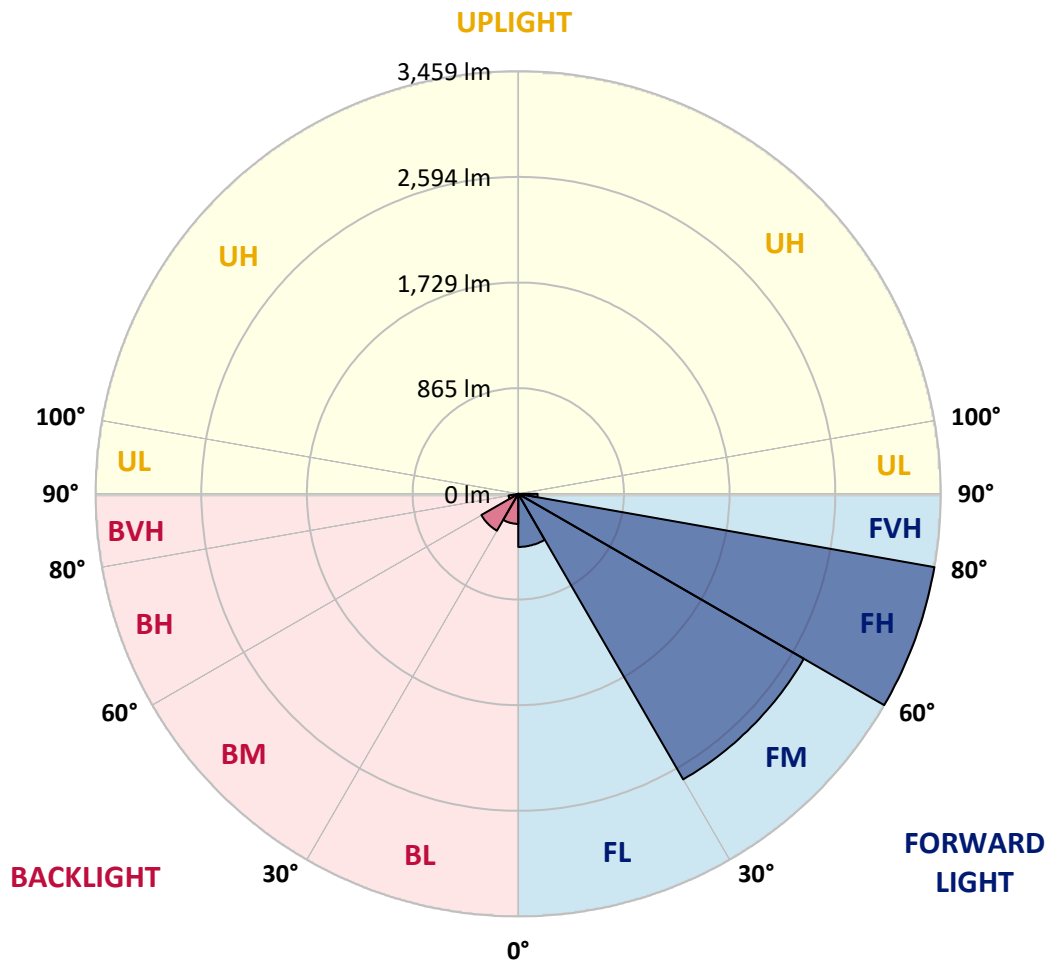


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.5	5.9			
FM (30°-60°)	2699.1	36.3			
FH (60°-80°)	3458.9	46.6			G2/5000
FVH (80°-90°)	158.3	2.1			G2/225
BL (0°-30°)	246.2	3.3	B1/500		
BM (30°-60°)	348.5	4.7	B1/1000		
BH (60°-80°)	81.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0
2.5°	1211.1	1216.2	1221.7	1222.8	1231.8	1232.2	1245.3	1255.1	1264.9	1274.4	1277.6
5°	1086.8	1095.2	1105.0	1114.8	1134.1	1141.7	1173.7	1206.4	1237.7	1267.5	1282.0
7.5°	954.1	963.6	977.4	1001.8	1023.2	1038.1	1088.6	1146.8	1204.9	1259.8	1291.5
10°	833.1	841.8	856.4	882.2	915.2	935.6	1003.6	1084.3	1169.7	1252.9	1305.6
12.5°	756.0	760.8	768.8	796.4	826.2	849.1	929.1	1029.0	1140.6	1252.6	1328.5
15°	741.9	743.3	736.8	749.1	772.4	794.6	875.6	984.3	1118.4	1258.4	1358.3
17.5°	764.4	763.7	741.9	740.4	759.0	777.1	849.5	953.4	1102.8	1271.8	1396.9
20°	798.6	796.0	758.2	751.3	770.9	788.0	847.6	941.8	1097.0	1294.4	1443.8
22.5°	844.0	839.6	780.4	773.1	794.2	812.0	870.2	953.0	1102.1	1324.5	1498.3
25°	900.3	893.8	818.6	810.6	832.0	849.8	910.5	985.4	1117.3	1361.2	1567.3
27.5°	964.0	954.5	879.6	858.9	883.3	901.8	964.3	1034.8	1141.3	1400.1	1652.0
30°	1023.9	1011.6	944.0	909.8	939.6	960.3	1022.5	1093.7	1179.9	1460.1	1768.0
32.5°	1084.3	1070.5	1001.4	960.7	987.6	1010.1	1082.4	1174.8	1252.2	1551.7	1922.1
35°	1223.1	1208.6	1123.9	1056.6	1056.3	1069.0	1166.4	1285.6	1347.8	1679.3	2106.0
37.5°	1456.8	1448.5	1367.8	1240.2	1206.0	1191.9	1280.9	1417.9	1485.2	1854.8	2313.6
40°	1712.7	1705.5	1615.0	1499.4	1447.4	1412.5	1445.2	1602.2	1679.3	2069.3	2525.5
42.5°	2001.7	1967.2	1805.8	1771.2	1724.7	1698.2	1668.7	1829.4	1917.7	2302.7	2735.6
45°	2264.1	2206.0	1996.6	1944.3	1933.7	1940.3	1956.6	2134.7	2186.0	2580.0	2944.9
47.5°	2420.4	2374.6	2214.0	2163.8	2160.9	2204.2	2327.7	2479.7	2453.1	2821.7	3129.2
50°	2569.1	2527.7	2394.3	2406.6	2420.1	2478.9	2749.0	2834.4	2697.0	3040.9	3298.2
52.5°	2689.4	2626.2	2556.4	2625.8	2691.9	2786.8	3183.7	3152.8	2870.1	3215.4	3442.9
55°	2758.8	2730.1	2763.9	2833.7	2958.0	3112.1	3594.1	3417.8	2996.5	3374.6	3539.2
57.5°	3013.3	2956.9	3024.2	3084.5	3246.6	3462.2	3945.6	3615.2	3087.8	3473.1	3561.4
60°	3321.1	3275.7	3315.3	3415.6	3634.5	3887.8	4274.2	3776.2	3135.4	3536.3	3504.0
62.5°	3811.1	3751.1	3726.4	3838.7	4128.8	4405.4	4523.5	3887.8	3124.9	3508.3	3307.0
65°	4467.6	4405.4	4294.9	4396.7	4765.6	4960.8	4802.3	3911.4	3052.2	3281.9	2809.0
67.5°	5140.0	5094.9	5000.4	5172.0	5504.9	5567.8	5097.1	3854.0	2818.1	2661.1	1984.6
70°	5584.2	5564.9	5626.3	6005.8	6302.8	6284.6	5367.5	3545.4	2196.5	1636.4	981.8
72.5°	5263.9	5356.3	5809.9	6498.0	6860.7	6712.4	5228.7	2722.5	1255.5	629.6	283.9
73°	4998.6	5116.7	5727.4	6516.5	6904.7	6742.2	5112.0	2498.9	1070.1	496.9	215.2
75°	3477.4	3622.5	4741.6	6069.1	6699.0	6423.8	4261.1	1529.5	495.8	220.3	86.9
77.5°	1688.4	1795.6	2610.9	4385.0	5209.8	5019.0	2652.7	569.9	223.9	137.8	40.0
80°	630.3	700.8	1133.3	2231.8	3010.7	3089.6	1166.8	215.5	149.0	110.9	20.4
82.5°	165.0	183.9	418.0	995.2	1543.0	1615.0	367.8	108.7	109.0	91.2	12.4
85°	52.7	60.3	130.5	446.7	727.0	638.3	96.0	52.7	79.2	68.0	6.9
87.5°	6.5	8.4	41.4	105.0	160.3	89.1	14.9	15.6	33.8	37.8	4.0
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°	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0
2.5°	1280.9	1279.1	1279.5	1270.0	1263.8	1251.5	1238.7	1232.9	1226.8	1224.2	1226.8
5°	1287.5	1284.2	1274.7	1245.7	1214.8	1174.8	1137.3	1109.0	1073.4	1063.5	1073.7
7.5°	1297.6	1291.1	1263.5	1204.2	1135.5	1059.2	973.4	910.9	859.6	826.6	838.6
10°	1312.5	1300.2	1244.6	1143.9	1021.0	885.8	764.0	669.2	601.9	574.3	573.2
12.5°	1337.6	1314.4	1221.3	1065.4	881.1	700.8	541.2	438.4	383.8	348.6	347.9
15°	1365.2	1331.1	1191.9	971.2	718.2	502.0	348.6	270.4	235.2	223.9	222.5
17.5°	1399.0	1350.3	1153.7	855.3	547.8	332.6	227.5	205.0	203.5	202.5	202.5
20°	1441.6	1373.2	1104.6	722.6	388.6	222.1	193.4	194.8	195.6	194.1	194.5
22.5°	1491.0	1396.5	1046.1	580.1	262.8	185.7	185.0	186.8	187.6	186.8	187.2
25°	1548.4	1423.4	974.9	430.7	189.7	176.3	178.1	180.7	182.5	182.5	182.5
27.5°	1619.7	1456.1	889.1	300.6	163.9	166.5	171.6	176.3	178.8	179.6	179.6
30°	1712.4	1496.8	786.2	206.1	149.0	153.4	162.8	171.9	176.7	177.4	177.7
32.5°	1829.4	1542.6	667.0	152.3	136.3	139.6	149.8	165.0	174.1	175.6	175.6
35°	1963.5	1595.7	538.7	132.7	127.2	128.3	136.3	153.8	169.7	173.7	174.1
37.5°	2110.4	1648.0	409.6	123.9	119.6	119.6	125.4	140.3	159.2	171.6	173.0
40°	2247.4	1679.7	287.2	117.0	112.7	112.7	117.8	128.7	146.5	165.0	169.0
42.5°	2373.9	1690.6	199.9	110.5	106.1	107.2	111.6	120.3	133.8	152.3	155.9
45°	2504.0	1688.7	145.8	102.9	99.6	102.9	106.1	112.7	122.5	133.0	133.8
47.5°	2602.2	1673.5	115.6	95.6	93.4	97.8	100.7	105.0	110.5	109.8	109.8
50°	2694.1	1636.4	93.1	85.8	87.2	92.3	93.8	95.2	95.6	88.7	88.0
52.5°	2763.9	1578.6	74.5	75.2	81.1	86.1	84.7	82.5	78.9	70.5	69.1
55°	2787.2	1467.4	58.5	62.2	72.0	78.5	73.1	68.3	61.4	54.5	53.1
57.5°	2745.0	1323.8	47.6	48.3	60.7	66.2	60.0	54.5	46.9	41.1	40.0
60°	2655.6	1164.2	39.3	36.3	46.9	51.6	47.6	42.2	35.3	30.9	30.5
62.5°	2478.2	994.1	32.3	28.4	35.6	39.6	37.1	33.1	27.3	24.4	24.0
65°	2105.3	795.3	26.2	22.9	27.6	30.9	28.7	25.8	21.4	19.3	18.9
67.5°	1469.6	537.6	21.4	18.9	21.8	24.4	22.5	21.1	17.1	16.7	17.1
70°	708.8	259.2	17.8	15.3	17.1	18.9	18.2	17.1	16.4	18.9	21.8
72.5°	203.2	86.9	14.2	12.7	13.8	14.9	15.6	15.3	17.8	22.9	26.5
73°	156.3	70.2	13.4	12.0	13.1	14.5	15.3	14.9	18.2	23.3	26.5
75°	66.9	33.8	10.2	9.8	10.9	12.7	13.4	13.4	18.2	23.6	25.4
77.5°	30.2	18.2	6.5	7.6	9.5	10.2	11.3	11.3	14.5	18.2	18.2
80°	17.1	9.8	5.1	5.8	6.9	6.9	6.9	6.2	6.5	7.3	8.0
82.5°	10.9	6.5	4.0	4.7	4.4	3.6	2.9	2.9	2.5	2.9	3.6
85°	6.2	3.6	3.6	2.9	1.8	1.5	1.8	1.5	0.4	0.0	0.4
87.5°	3.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)