

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: P322675

Luminaire Tested: **GLEON-SA1B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322675  
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-SA1B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3124 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

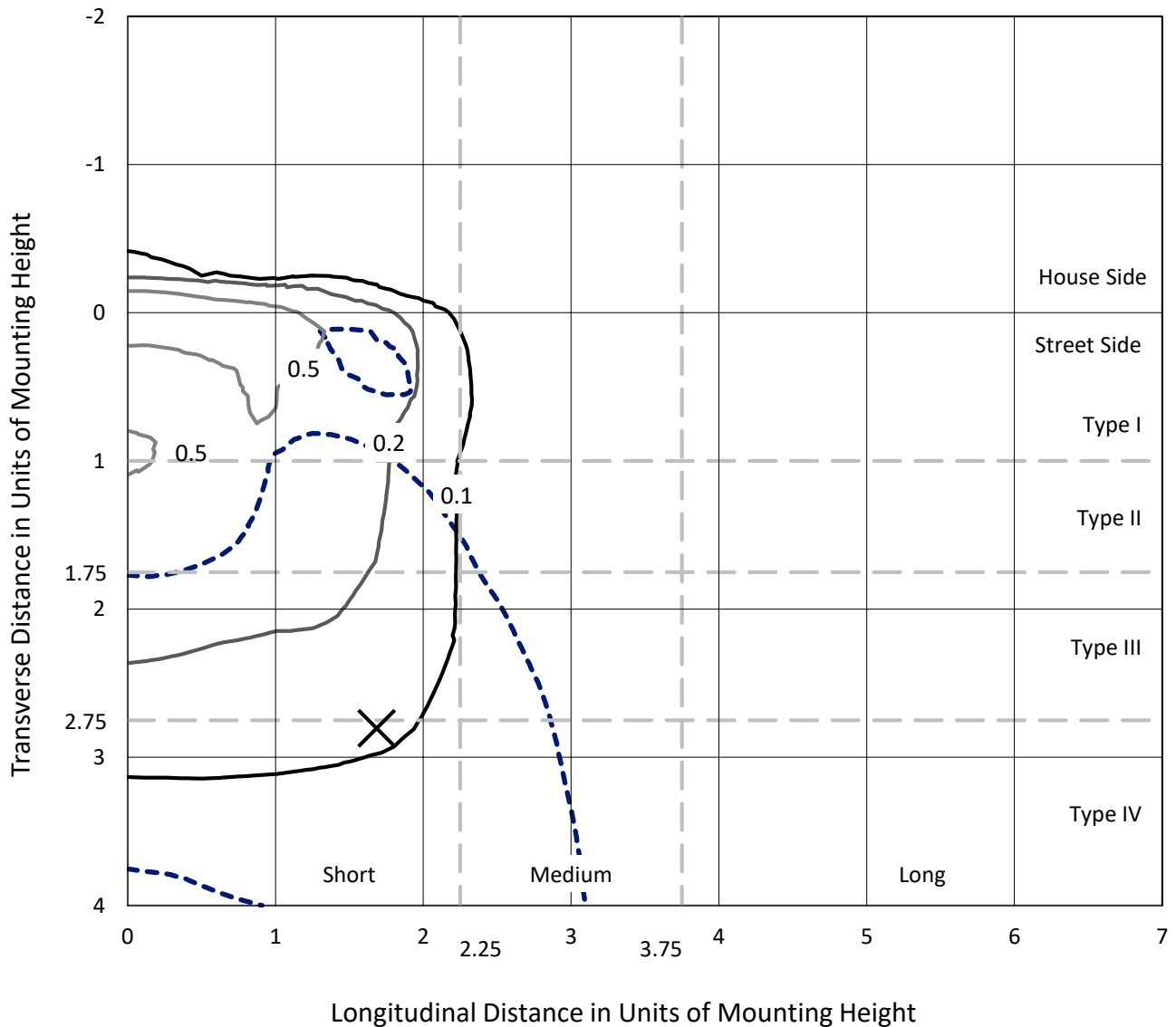
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

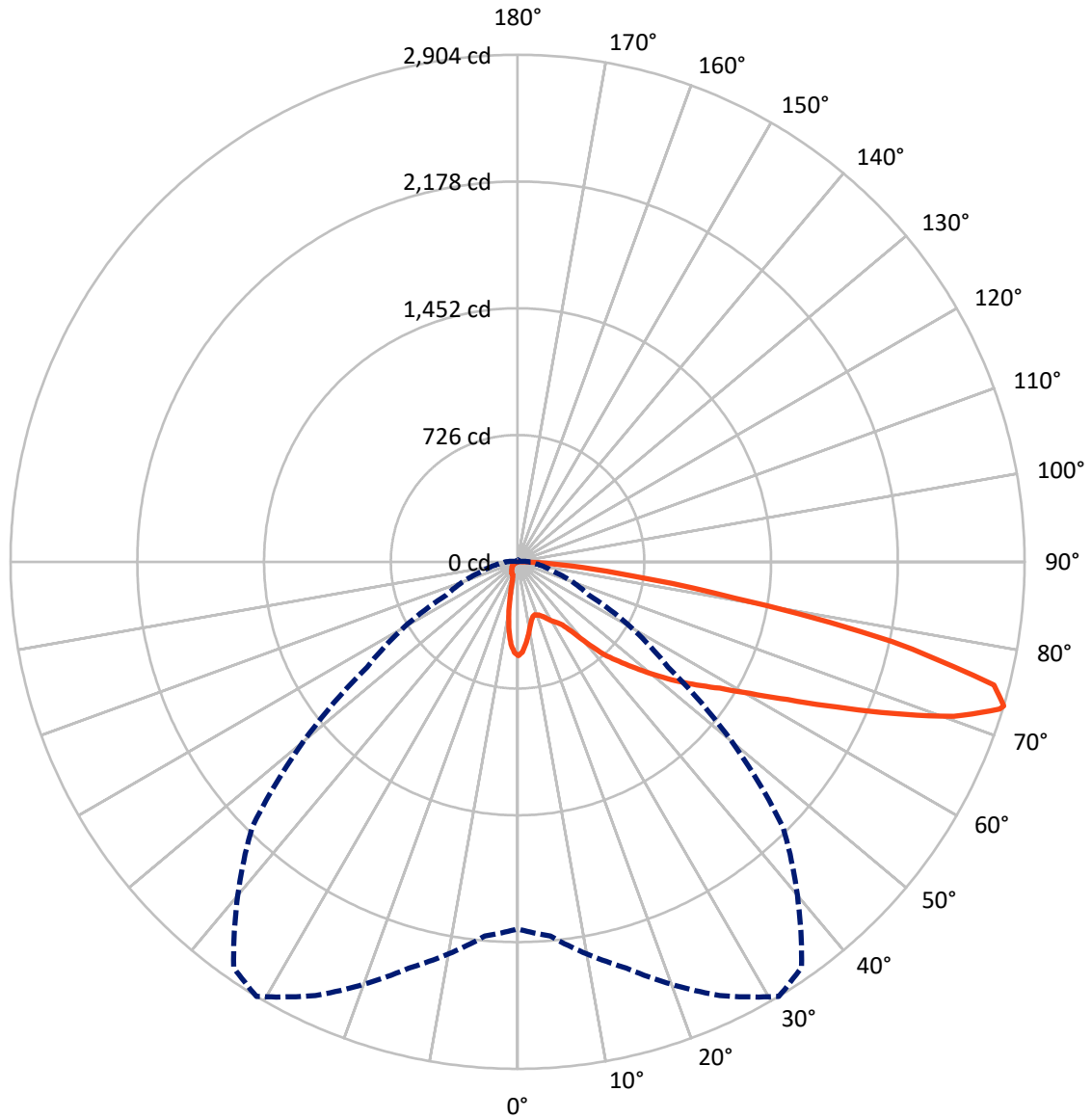
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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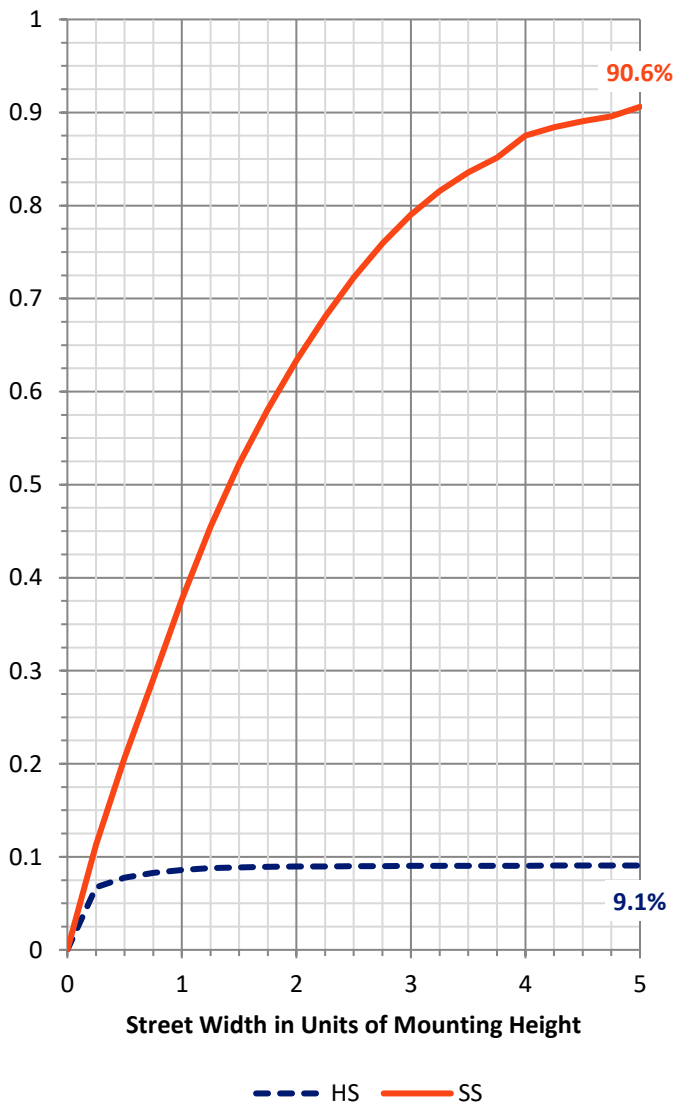
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	284.8	0.0	284.8
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	2839.2	0.0	2839.2
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	3124.0	0.0	3124.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	1.4
10°-20°	96.8	3.1
20°-30°	145.0	4.6
30°-40°	230.7	7.4
40°-50°	411.9	13.2
50°-60°	639.2	20.5
60°-70°	849.7	27.2
70°-80°	639.1	20.5
80°-90°	67.2	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°	3124.0	100.0
0°-180°	3124.0	100.0

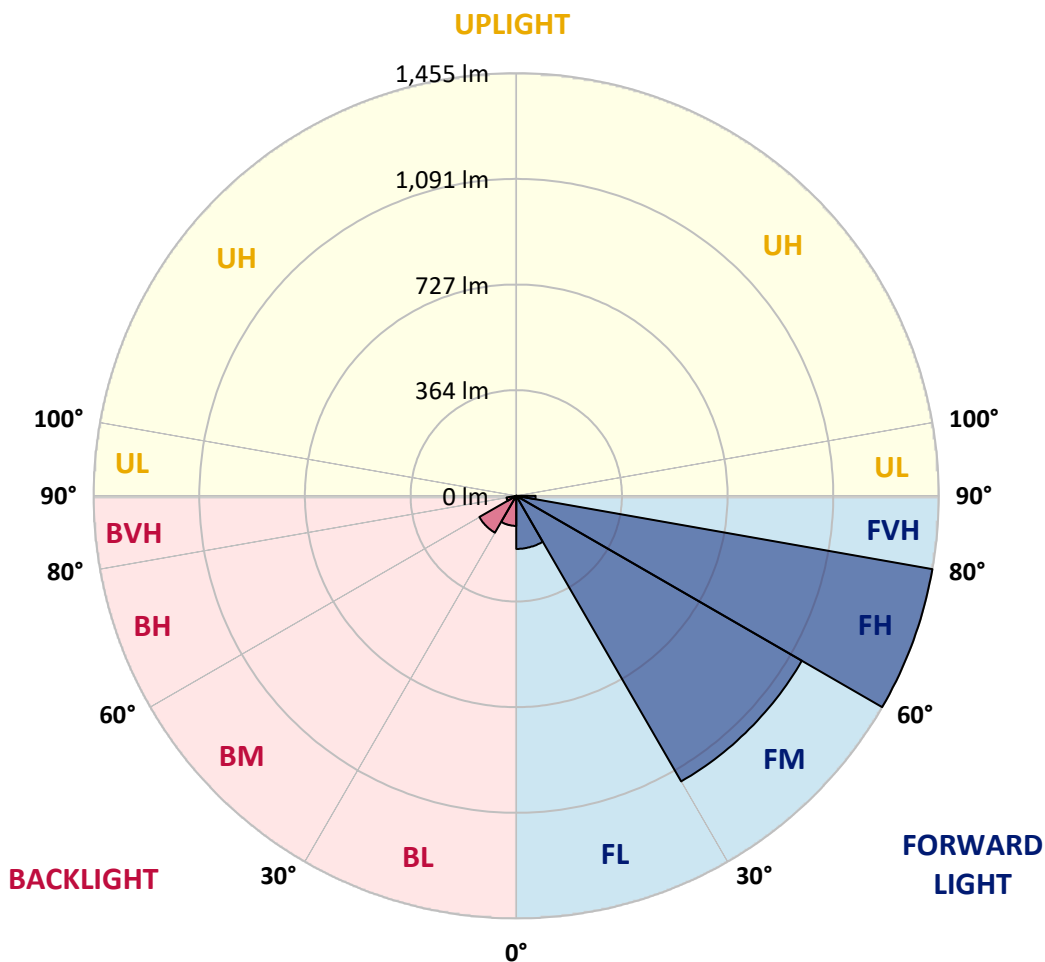


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.8	5.9			
FM (30°-60°)	1135.2	36.3			
FH (60°-80°)	1454.7	46.6			G1/1800
FVH (80°-90°)	66.6	2.1			G1/100
BL (0°-30°)	103.6	3.3	B0/110		
BM (30°-60°)	146.6	4.7	B0/220		
BH (60°-80°)	34.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5
2.5°	509.4	511.5	513.8	514.3	518.1	518.2	523.7	527.9	532.0	536.0	537.3
5°	457.1	460.6	464.7	468.9	477.0	480.2	493.6	507.4	520.5	533.1	539.2
7.5°	401.3	405.3	411.1	421.3	430.3	436.6	457.8	482.3	506.8	529.8	543.1
10°	350.4	354.0	360.2	371.0	384.9	393.5	422.1	456.0	491.9	526.9	549.1
12.5°	318.0	320.0	323.3	334.9	347.5	357.1	390.7	432.8	479.7	526.8	558.7
15°	312.0	312.6	309.9	315.1	324.8	334.2	368.3	414.0	470.4	529.2	571.3
17.5°	321.5	321.2	312.0	311.4	319.2	326.8	357.3	401.0	463.8	534.9	587.5
20°	335.9	334.8	318.9	316.0	324.2	331.4	356.5	396.1	461.4	544.4	607.2
22.5°	355.0	353.1	328.2	325.2	334.0	341.5	366.0	400.8	463.5	557.1	630.1
25°	378.7	375.9	344.3	340.9	349.9	357.4	382.9	414.4	469.9	572.5	659.2
27.5°	405.4	401.4	369.9	361.2	371.5	379.3	405.6	435.2	480.0	588.9	694.8
30°	430.6	425.4	397.0	382.6	395.2	403.9	430.0	460.0	496.2	614.1	743.6
32.5°	456.0	450.2	421.2	404.0	415.3	424.8	455.2	494.1	526.6	652.6	808.4
35°	514.4	508.3	472.7	444.4	444.2	449.6	490.6	540.7	566.8	706.3	885.7
37.5°	612.7	609.2	575.2	521.6	507.2	501.3	538.7	596.3	624.6	780.1	973.0
40°	720.3	717.3	679.2	630.6	608.7	594.1	607.8	673.9	706.3	870.3	1062.1
42.5°	841.9	827.3	759.5	744.9	725.4	714.2	701.8	769.4	806.5	968.4	1150.5
45°	952.2	927.8	839.7	817.7	813.3	816.0	822.9	897.8	919.4	1085.1	1238.6
47.5°	1018.0	998.7	931.1	910.0	908.8	927.0	979.0	1042.9	1031.7	1186.7	1316.1
50°	1080.5	1063.1	1007.0	1012.2	1017.8	1042.6	1156.2	1192.1	1134.3	1278.9	1387.1
52.5°	1131.1	1104.5	1075.1	1104.3	1132.2	1172.1	1339.0	1326.0	1207.1	1352.3	1448.0
55°	1160.3	1148.2	1162.4	1191.8	1244.1	1308.9	1511.6	1437.4	1260.3	1419.2	1488.5
57.5°	1267.3	1243.6	1271.9	1297.3	1365.4	1456.1	1659.4	1520.4	1298.6	1460.7	1497.8
60°	1396.8	1377.7	1394.3	1436.5	1528.5	1635.1	1797.6	1588.2	1318.7	1487.3	1473.7
62.5°	1602.8	1577.6	1567.2	1614.5	1736.4	1852.8	1902.5	1635.1	1314.2	1475.5	1390.8
65°	1878.9	1852.8	1806.3	1849.1	2004.3	2086.4	2019.7	1645.0	1283.6	1380.3	1181.4
67.5°	2161.7	2142.8	2103.0	2175.2	2315.2	2341.7	2143.7	1620.9	1185.2	1119.2	834.7
70°	2348.5	2340.4	2366.3	2525.9	2650.8	2643.1	2257.4	1491.1	923.8	688.2	412.9
72.5°	2213.9	2252.7	2443.5	2732.9	2885.4	2823.0	2199.0	1145.0	528.0	264.8	119.4
73°	2102.3	2151.9	2408.8	2740.7	2903.9	2835.6	2150.0	1051.0	450.0	209.0	90.5
75°	1462.5	1523.5	1994.2	2552.5	2817.4	2701.7	1792.1	643.3	208.5	92.6	36.5
77.5°	710.1	755.2	1098.1	1844.2	2191.1	2110.8	1115.6	239.7	94.2	57.9	16.8
80°	265.1	294.7	476.6	938.6	1266.2	1299.4	490.7	90.7	62.7	46.6	8.6
82.5°	69.4	77.4	175.8	418.6	648.9	679.2	154.7	45.7	45.9	38.4	5.2
85°	22.2	25.4	54.9	187.9	305.7	268.4	40.4	22.2	33.3	28.6	2.9
87.5°	2.8	3.5	17.4	44.2	67.4	37.5	6.3	6.6	14.2	15.9	1.7
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°	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5
2.5°	538.7	537.9	538.1	534.1	531.5	526.3	521.0	518.5	515.9	514.9	515.9
5°	541.5	540.1	536.1	523.9	510.9	494.1	478.3	466.4	451.4	447.3	451.6
7.5°	545.7	543.0	531.4	506.5	477.6	445.5	409.4	383.1	361.5	347.6	352.7
10°	552.0	546.8	523.4	481.1	429.4	372.5	321.3	281.4	253.2	241.5	241.1
12.5°	562.6	552.8	513.6	448.1	370.6	294.7	227.6	184.4	161.4	146.6	146.3
15°	574.2	559.8	501.3	408.5	302.1	211.1	146.6	113.7	98.9	94.2	93.6
17.5°	588.4	567.9	485.2	359.7	230.4	139.9	95.7	86.2	85.6	85.1	85.1
20°	606.3	577.5	464.6	303.9	163.4	93.4	81.3	81.9	82.2	81.6	81.8
22.5°	627.1	587.3	440.0	244.0	110.5	78.1	77.8	78.6	78.9	78.6	78.7
25°	651.2	598.6	410.0	181.2	79.8	74.1	74.9	76.0	76.7	76.7	76.7
27.5°	681.2	612.4	373.9	126.4	68.9	70.0	72.2	74.1	75.2	75.5	75.5
30°	720.2	629.5	330.7	86.7	62.7	64.5	68.5	72.3	74.3	74.6	74.8
32.5°	769.4	648.8	280.5	64.1	57.3	58.7	63.0	69.4	73.2	73.8	73.8
35°	825.8	671.1	226.6	55.8	53.5	54.0	57.3	64.7	71.4	73.1	73.2
37.5°	887.6	693.1	172.3	52.1	50.3	50.3	52.7	59.0	67.0	72.2	72.8
40°	945.2	706.4	120.8	49.2	47.4	47.4	49.5	54.1	61.6	69.4	71.1
42.5°	998.4	711.0	84.1	46.5	44.6	45.1	46.9	50.6	56.3	64.1	65.6
45°	1053.1	710.2	61.3	43.3	41.9	43.3	44.6	47.4	51.5	56.0	56.3
47.5°	1094.4	703.8	48.6	40.2	39.3	41.1	42.3	44.2	46.5	46.2	46.2
50°	1133.1	688.2	39.1	36.1	36.7	38.8	39.4	40.1	40.2	37.3	37.0
52.5°	1162.4	663.9	31.3	31.6	34.1	36.2	35.6	34.7	33.2	29.7	29.0
55°	1172.2	617.1	24.6	26.1	30.3	33.0	30.7	28.7	25.8	22.9	22.3
57.5°	1154.5	556.8	20.0	20.3	25.5	27.8	25.2	22.9	19.7	17.3	16.8
60°	1116.9	489.6	16.5	15.3	19.7	21.7	20.0	17.7	14.8	13.0	12.8
62.5°	1042.3	418.1	13.6	11.9	15.0	16.7	15.6	13.9	11.5	10.2	10.1
65°	885.4	334.5	11.0	9.6	11.6	13.0	12.1	10.9	9.0	8.1	7.9
67.5°	618.1	226.1	9.0	7.9	9.2	10.2	9.5	8.9	7.2	7.0	7.2
70°	298.1	109.0	7.5	6.4	7.2	7.9	7.6	7.2	6.9	7.9	9.2
72.5°	85.5	36.5	6.0	5.4	5.8	6.3	6.6	6.4	7.5	9.6	11.2
73°	65.7	29.5	5.7	5.0	5.5	6.1	6.4	6.3	7.6	9.8	11.2
75°	28.1	14.2	4.3	4.1	4.6	5.4	5.7	5.7	7.6	9.9	10.7
77.5°	12.7	7.6	2.8	3.2	4.0	4.3	4.7	4.7	6.1	7.6	7.6
80°	7.2	4.1	2.1	2.4	2.9	2.9	2.9	2.6	2.8	3.1	3.4
82.5°	4.6	2.8	1.7	2.0	1.8	1.5	1.2	1.2	1.1	1.2	1.5
85°	2.6	1.5	1.5	1.2	0.8	0.6	0.8	0.6	0.2	0.0	0.2
87.5°	1.5	0.9	0.5	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)