

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: P318825

Luminaire Tested: **GLEON-SA1A-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3609 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

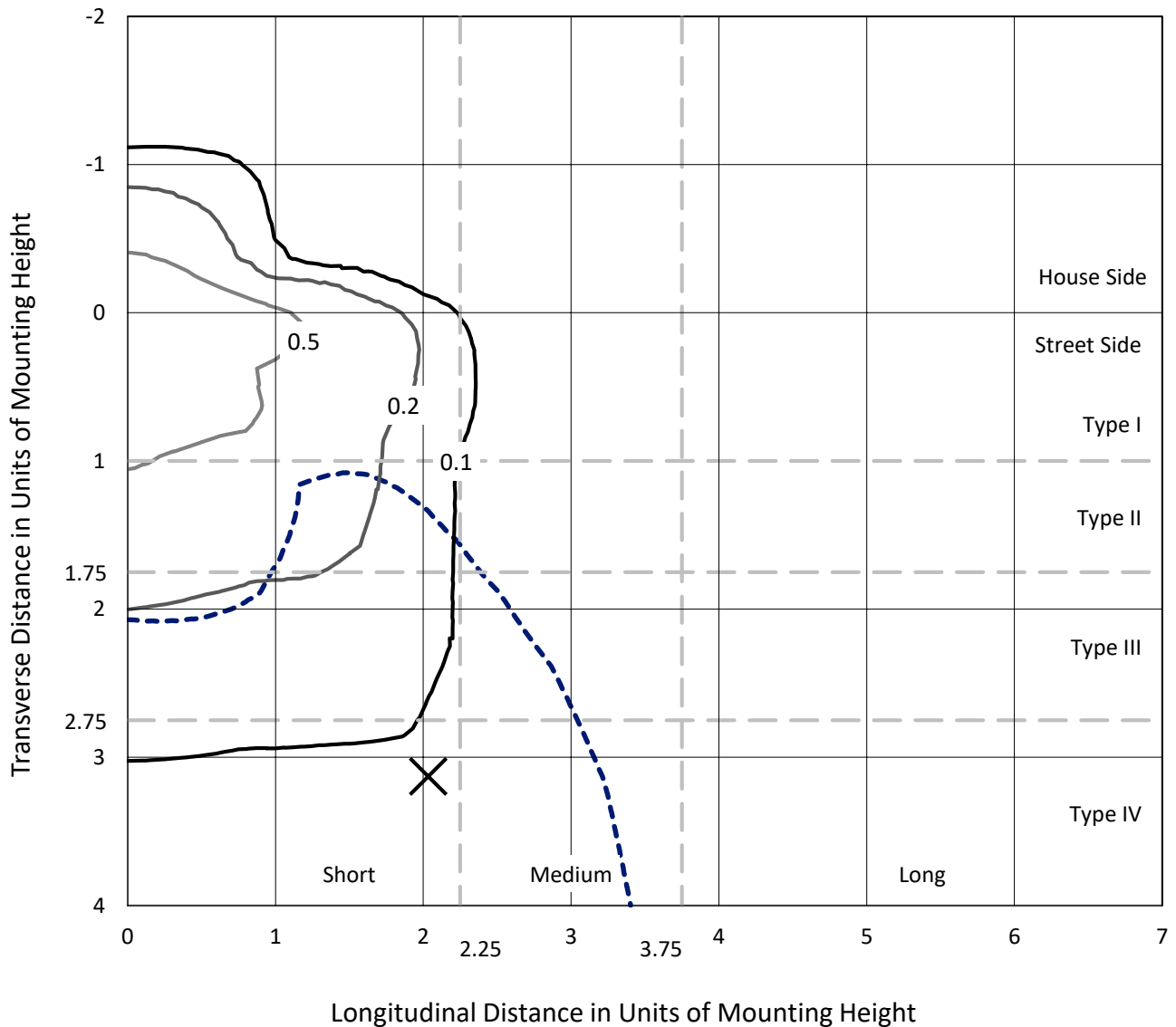
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

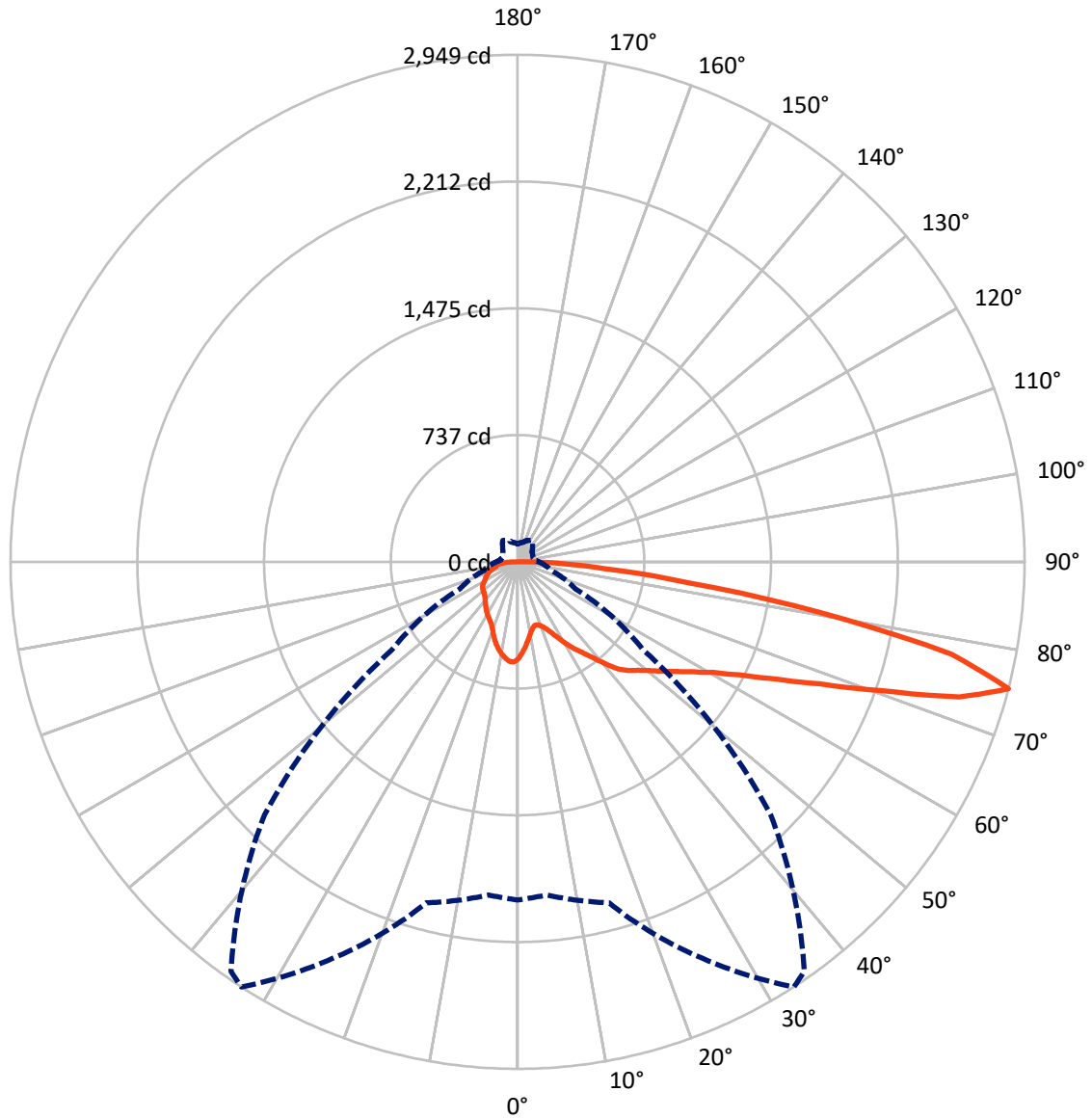
✕ Max cd
 - - - 1/2 Max cd



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 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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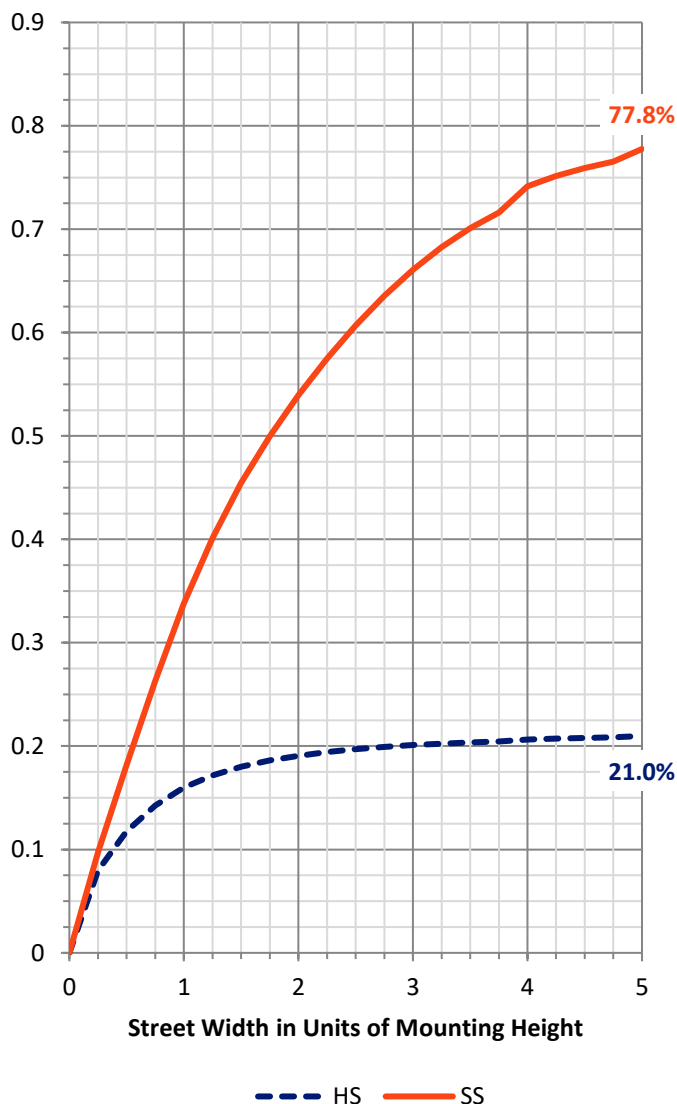
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.9	0.0	774.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	2834.1	0.0	2834.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	3609.0	0.0	3609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	1.4
10°-20°	138.2	3.8
20°-30°	225.7	6.3
30°-40°	336.1	9.3
40°-50°	482.0	13.4
50°-60°	661.7	18.3
60°-70°	828.4	23.0
70°-80°	749.4	20.8
80°-90°	136.5	3.8
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°	3609.0	100.0
0°-180°	3609.0	100.0

Coefficient of Utilization



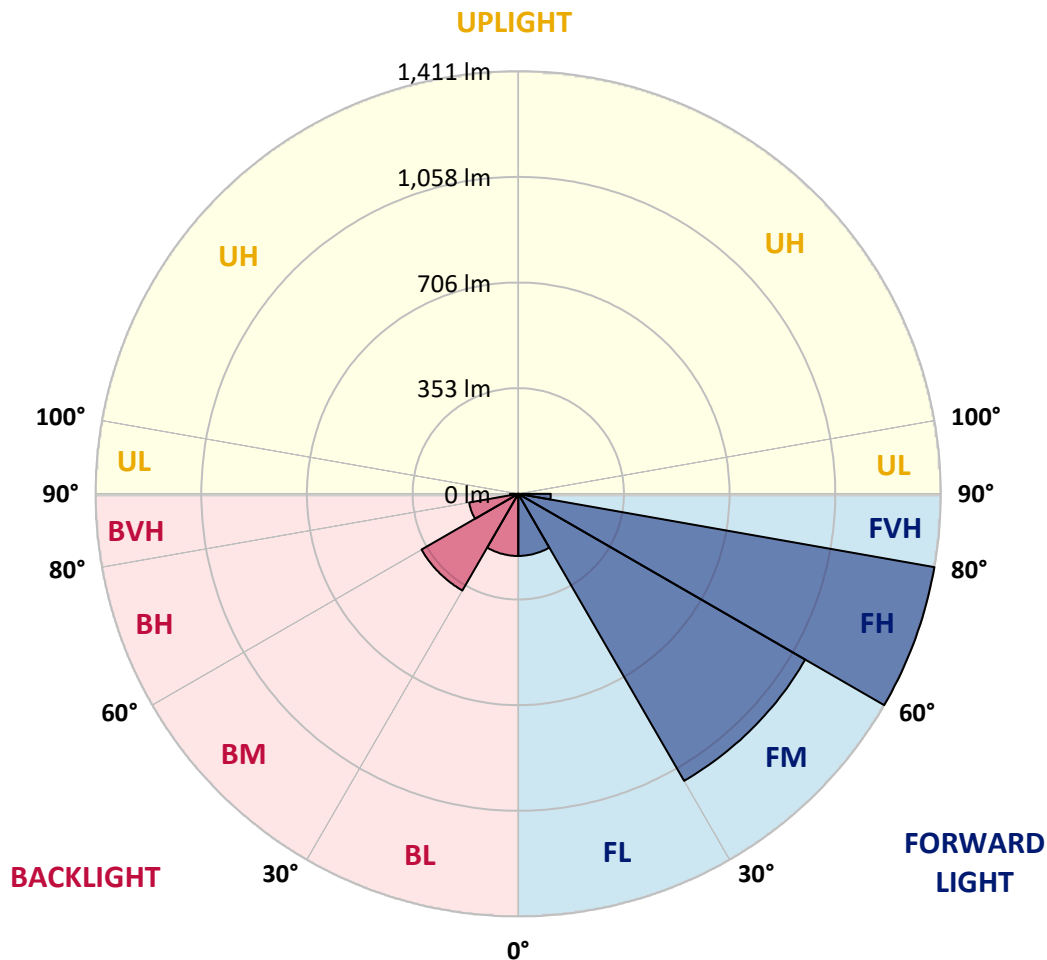
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.3	5.7			
FM (30°-60°)	1106.8	30.7			
FH (60°-80°)	1411.2	39.1			G1/1800
FVH (80°-90°)	108.7	3.0			G2/225
BL (0°-30°)	207.6	5.8	B1/500		
BM (30°-60°)	373.0	10.3	B1/1000		
BH (60°-80°)	166.6	4.6	B1/500		G1/500
BVH (80°-90°)	27.8	0.8			G1/100
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°	33°	35°	45°	55°	65°	75°	85°
0°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1
2.5°	523.8	521.8	525.6	526.1	529.3	530.6	535.1	542.0	547.8	554.4	560.4
5°	476.3	475.0	480.2	483.9	491.1	494.0	504.6	519.5	532.7	547.7	561.2
7.5°	431.2	430.5	436.3	444.8	453.0	457.1	475.5	497.0	519.1	543.3	564.1
10°	393.2	392.9	398.6	406.9	419.0	423.6	447.3	475.7	506.6	539.9	569.0
12.5°	371.9	372.7	375.4	382.3	393.6	398.2	424.5	457.9	496.2	538.8	576.1
15°	377.1	378.5	374.0	373.7	381.7	385.3	410.0	445.2	488.7	540.7	586.4
17.5°	399.4	399.7	387.8	380.4	385.2	387.1	405.5	437.9	484.3	544.9	599.4
20°	430.8	430.2	409.3	396.8	399.4	399.9	411.9	438.1	483.9	552.3	616.2
22.5°	472.5	467.9	439.7	422.7	422.1	421.4	428.2	447.3	489.4	564.2	636.3
25°	526.8	522.5	483.7	460.5	455.5	453.7	454.7	467.0	500.3	577.1	658.7
27.5°	587.3	579.7	542.3	509.5	499.2	496.5	490.6	494.8	512.1	589.4	685.4
30°	637.9	633.8	601.1	562.2	550.0	546.3	530.6	526.0	529.2	606.2	719.1
32.5°	666.2	663.5	643.6	612.2	600.9	595.6	573.5	564.2	556.6	632.8	764.7
35°	700.5	698.7	686.8	664.0	647.1	641.6	624.4	614.8	595.3	669.3	823.7
37.5°	744.1	742.3	742.5	724.1	704.0	698.9	687.5	677.4	645.4	717.3	887.7
40°	793.5	789.9	788.5	787.6	774.9	772.0	766.1	752.4	708.2	774.7	950.9
42.5°	867.8	854.9	827.5	837.9	850.5	849.0	853.8	834.1	778.0	842.5	1012.6
45°	939.5	918.4	871.0	873.3	900.8	909.2	945.6	931.6	853.7	916.8	1076.5
47.5°	972.1	956.2	915.9	916.0	943.3	960.7	1040.5	1030.5	933.2	1001.2	1154.4
50°	1008.7	992.7	956.6	970.1	994.0	1012.4	1132.1	1127.0	1008.9	1093.6	1247.8
52.5°	1048.6	1021.5	998.6	1022.9	1056.3	1077.7	1223.8	1209.9	1078.3	1186.6	1355.1
55°	1049.1	1041.7	1059.1	1077.0	1127.0	1153.3	1319.9	1283.0	1134.9	1277.9	1442.5
57.5°	1108.8	1096.8	1133.8	1142.1	1207.4	1237.0	1415.6	1346.8	1192.5	1348.0	1489.6
60°	1187.8	1177.6	1207.9	1229.6	1306.9	1346.5	1517.7	1412.2	1237.8	1400.9	1487.4
62.5°	1324.3	1312.7	1312.3	1342.8	1446.9	1493.0	1632.2	1476.4	1255.7	1411.3	1423.9
65°	1524.1	1505.7	1470.9	1485.4	1640.2	1686.2	1760.3	1522.9	1232.1	1355.2	1260.5
67.5°	1718.6	1718.0	1675.2	1704.9	1895.5	1932.4	1906.1	1527.5	1158.1	1159.9	970.5
70°	1912.5	1915.0	1907.7	2011.0	2240.5	2278.9	2061.5	1465.6	992.0	837.6	581.4
72.5°	2066.1	2065.4	2101.8	2368.0	2688.1	2679.5	2192.4	1277.8	712.2	452.2	277.9
75°	1966.6	1944.9	2053.3	2544.8	2949.1	2907.1	2081.0	891.4	369.6	205.8	149.6
77.5°	1282.7	1303.2	1462.4	2102.2	2579.6	2528.4	1526.8	415.9	174.2	135.0	108.5
80°	464.5	486.2	684.8	1190.8	1777.2	1768.9	751.9	170.9	117.8	102.0	79.0
82.5°	159.8	167.8	270.1	528.8	1003.4	1040.8	282.9	97.1	85.6	72.3	54.1
85°	62.7	71.8	123.5	254.4	506.1	509.9	114.6	58.1	59.6	47.4	29.7
87.5°	23.8	28.9	59.1	118.2	231.1	212.3	41.0	27.7	33.9	28.2	14.1
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°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1
2.5°	565.0	567.6	573.1	576.8	580.8	581.9	582.4	583.4	584.4	584.1	584.2
5°	568.5	573.6	582.4	586.2	587.9	585.9	582.1	578.9	576.7	575.5	575.1
7.5°	574.2	581.4	590.9	590.3	586.3	577.4	567.5	560.0	553.8	551.5	550.3
10°	581.8	590.3	596.9	589.8	578.2	562.9	547.9	536.3	527.0	523.3	522.7
12.5°	591.5	600.1	601.4	586.3	567.1	546.2	525.8	510.5	496.5	492.1	491.1
15°	604.1	612.2	604.5	580.2	553.4	525.2	498.9	478.1	463.4	457.9	455.9
17.5°	617.3	625.1	605.1	570.1	535.4	500.4	467.4	446.0	429.2	422.9	422.1
20°	633.2	636.7	602.5	555.6	510.8	468.2	433.5	413.4	404.4	399.9	399.4
22.5°	652.7	649.0	596.5	536.1	479.5	431.1	402.8	393.4	391.2	390.2	390.6
25°	673.4	662.0	587.7	510.5	439.9	393.9	380.4	383.0	386.0	385.6	385.6
27.5°	696.3	675.2	574.1	476.6	396.2	363.5	365.1	374.7	379.2	379.1	379.0
30°	725.5	690.1	556.8	435.8	355.3	342.1	351.9	363.6	369.8	369.5	369.6
32.5°	761.6	706.6	533.2	390.3	325.7	326.2	337.6	349.2	356.3	355.7	355.8
35°	803.7	725.0	501.3	345.4	306.2	313.7	322.6	330.7	337.5	336.6	335.7
37.5°	849.6	743.1	458.9	305.3	290.2	301.9	309.4	310.8	313.9	311.7	310.0
40°	893.2	757.0	404.3	272.4	274.1	292.0	296.8	291.3	285.7	285.0	282.7
42.5°	931.2	761.6	349.1	246.1	257.2	281.5	284.5	273.0	262.9	258.2	256.2
45°	971.4	763.2	297.6	224.0	240.9	272.1	275.4	260.1	245.8	235.6	232.2
47.5°	1023.9	774.9	257.6	207.7	228.4	265.9	270.5	249.7	231.3	216.7	213.6
50°	1092.6	798.1	225.0	195.2	220.3	261.8	267.0	239.6	219.3	201.7	198.6
52.5°	1168.9	819.4	198.7	185.1	212.4	254.6	262.5	232.4	208.1	187.9	184.5
55°	1222.2	803.1	177.5	174.7	202.2	244.2	256.3	226.3	192.0	174.4	171.4
57.5°	1232.4	747.2	161.4	163.8	189.9	231.3	246.7	212.7	183.3	168.5	165.4
60°	1204.5	669.4	149.5	153.8	176.6	214.9	228.8	203.1	174.9	162.3	159.7
62.5°	1134.3	589.8	140.6	144.9	164.3	198.3	217.5	193.0	166.4	155.2	152.6
65°	992.6	495.2	132.1	136.9	152.8	184.0	207.4	183.6	158.1	149.5	147.0
67.5°	749.2	370.9	124.2	128.4	142.6	171.5	196.5	174.4	150.0	144.5	141.5
70°	441.2	232.2	115.1	119.6	131.9	158.6	184.8	164.3	139.9	137.4	133.5
72.5°	205.3	139.7	104.7	109.1	118.4	141.2	169.7	151.1	127.9	122.4	117.2
75°	122.5	102.2	92.5	96.4	103.0	122.8	150.7	137.6	116.6	109.3	103.8
77.5°	91.6	78.2	79.0	83.2	88.5	107.5	133.5	127.0	107.8	102.2	98.5
80°	65.9	59.3	64.5	68.9	74.5	97.7	127.9	117.4	97.5	90.0	86.5
82.5°	44.0	42.6	48.5	53.1	58.6	85.5	120.2	102.8	83.3	73.8	66.1
85°	24.3	25.7	32.7	34.7	39.4	60.2	98.5	82.7	62.7	50.5	48.2
87.5°	10.1	11.8	17.6	17.0	20.9	35.9	64.8	49.9	39.9	29.8	23.2
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)