

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: P652196

Luminaire Tested: **GALN-SA1B-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3791.2 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

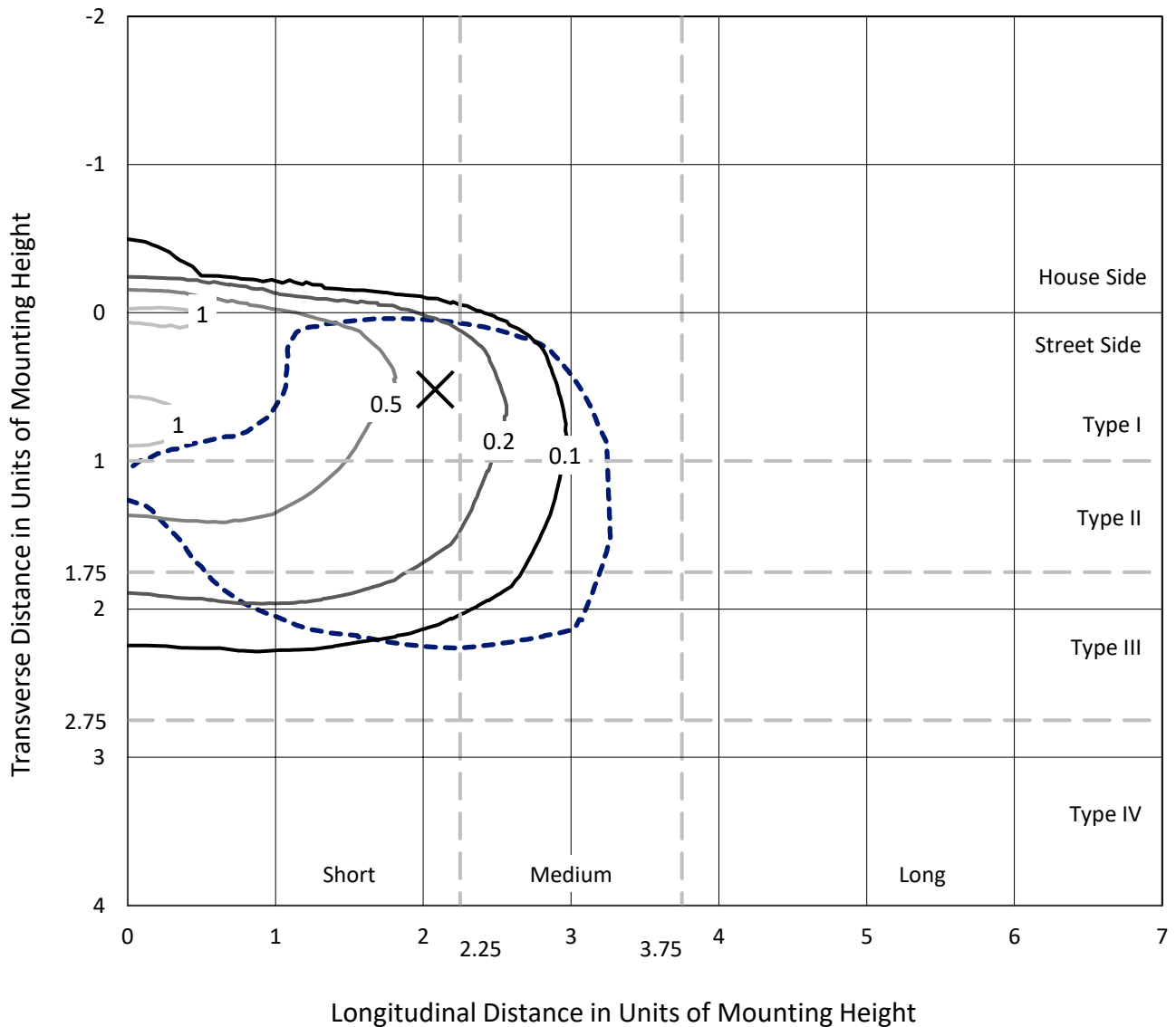
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

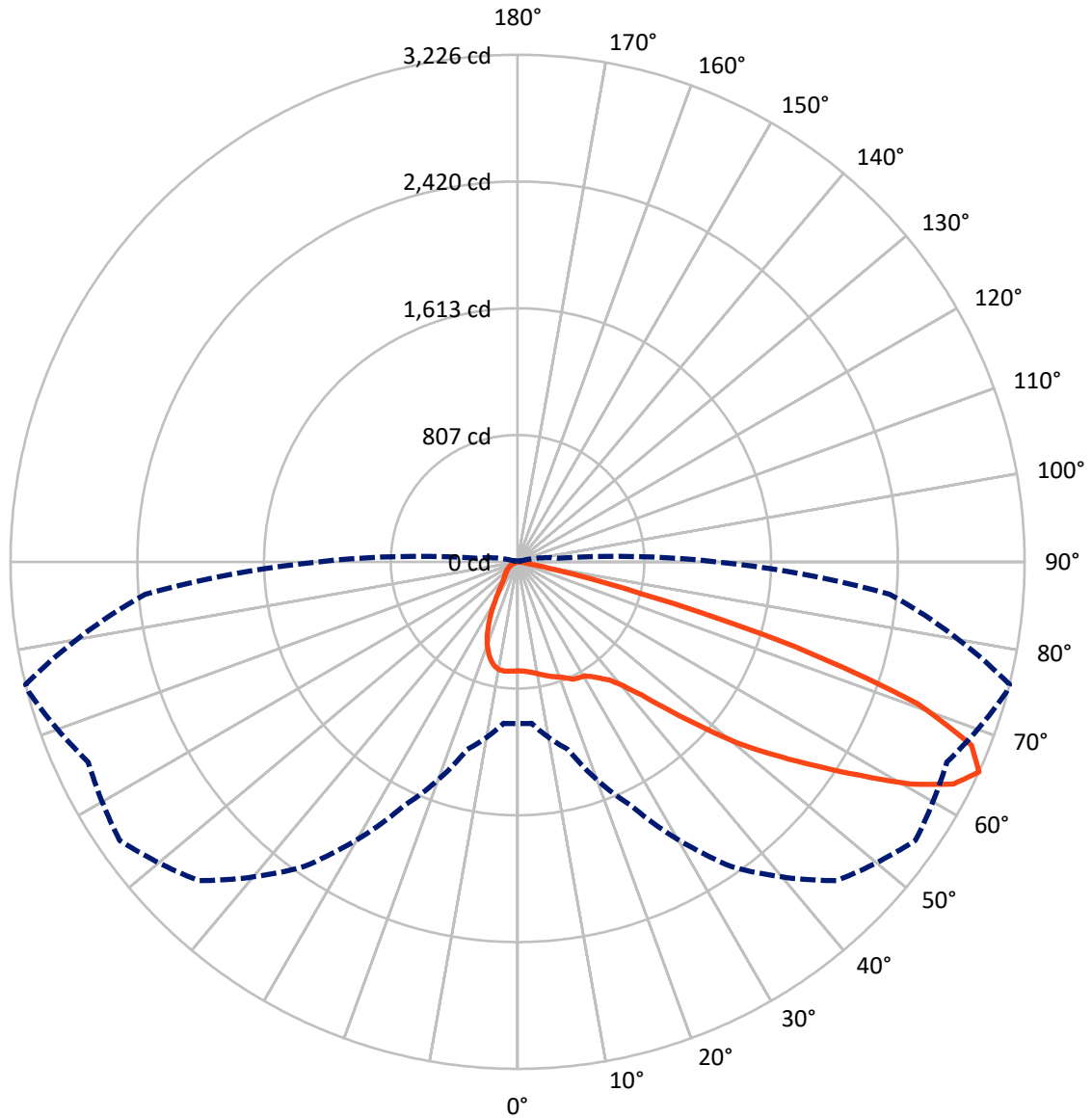
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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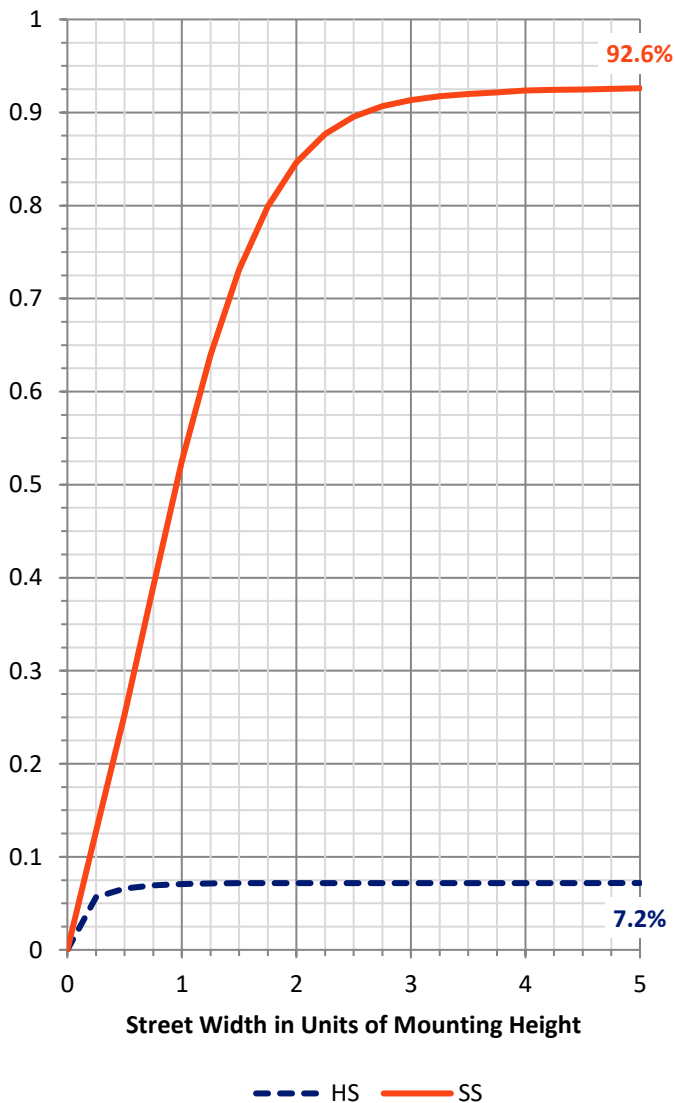
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	273.8	0.0	273.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3517.4	0.0	3517.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	3791.2	0.0	3791.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.5
10°-20°	127.2	3.4
20°-30°	205.0	5.4
30°-40°	356.4	9.4
40°-50°	589.0	15.5
50°-60°	909.8	24.0
60°-70°	1111.0	29.3
70°-80°	421.7	11.1
80°-90°	14.1	0.4
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°	3791.2	100.0
0°-180°	3791.2	100.0

Coefficient of Utilization



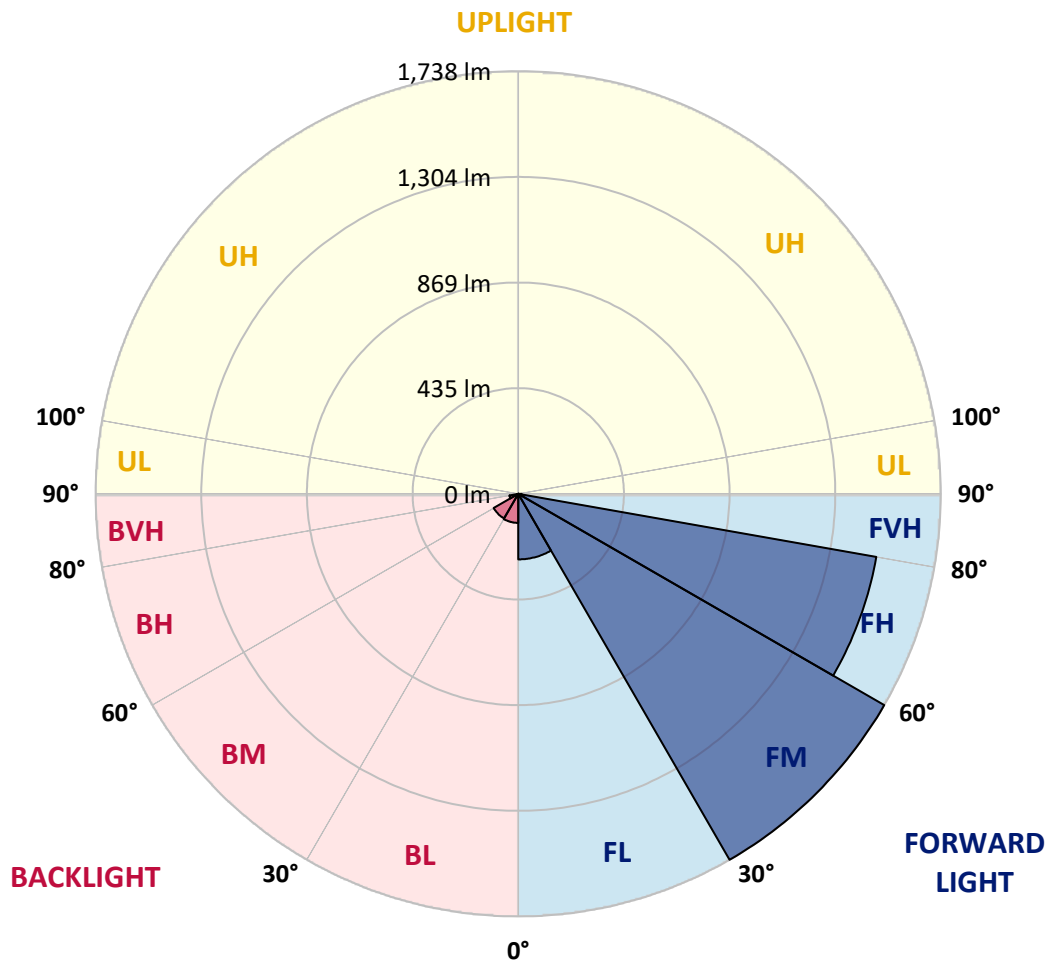
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.7	7.1			
FM (30°-60°)	1738.3	45.9			
FH (60°-80°)	1495.5	39.4			G1/1800
FVH (80°-90°)	13.9	0.4			G1/100
BL (0°-30°)	119.6	3.2	B1/500		
BM (30°-60°)	116.8	3.1	B0/220		
BH (60°-80°)	37.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6
2.5°	662.8	663.0	664.6	668.7	674.8	679.9	684.2	691.1	695.9	696.5	698.1
5°	617.0	613.8	617.0	627.4	636.8	651.0	668.3	685.8	701.3	702.4	709.9
7.5°	565.6	568.3	573.4	584.1	601.7	623.4	648.6	679.6	709.0	711.7	726.5
10°	513.4	519.3	527.6	543.9	568.5	596.6	630.9	675.3	721.4	725.1	750.6
12.5°	465.2	467.8	478.0	500.0	530.5	570.1	617.5	672.9	735.0	739.6	776.2
15°	428.2	431.8	440.6	460.4	494.4	545.2	606.5	672.1	748.4	754.8	802.0
17.5°	421.3	423.4	427.2	440.6	470.3	525.5	596.6	671.9	761.3	769.0	825.8
20°	449.9	448.1	444.3	443.0	459.4	510.2	589.4	674.0	773.6	782.4	850.9
22.5°	521.7	524.1	502.2	476.2	470.9	507.8	588.4	684.2	793.1	803.6	879.0
25°	674.0	655.6	621.2	559.2	512.3	522.5	600.4	708.3	815.9	827.4	904.5
27.5°	842.3	836.7	783.5	681.2	594.0	553.5	621.8	726.7	823.3	835.1	918.9
30°	1007.8	1014.5	953.4	840.5	712.6	611.1	641.9	733.7	830.1	842.3	937.4
32.5°	1161.2	1169.2	1115.7	1003.7	852.3	710.6	676.4	760.7	858.2	870.8	968.2
35°	1281.9	1282.9	1242.5	1153.4	1004.8	831.7	751.1	808.1	896.2	910.9	1000.8
37.5°	1392.7	1391.1	1343.7	1266.9	1132.0	951.8	845.0	862.7	939.6	954.8	1048.0
40°	1474.9	1476.0	1460.6	1388.4	1250.6	1062.9	919.5	913.8	1012.3	1036.2	1116.4
42.5°	1529.8	1539.6	1547.1	1510.4	1399.7	1199.7	1033.8	1023.3	1138.7	1158.5	1213.4
45°	1574.2	1591.8	1629.4	1627.4	1542.9	1367.6	1190.6	1169.2	1317.8	1338.9	1336.8
47.5°	1606.6	1624.5	1686.6	1724.0	1677.5	1530.3	1387.9	1369.4	1531.6	1554.7	1473.0
50°	1623.1	1644.6	1723.8	1796.4	1782.7	1687.1	1612.7	1613.8	1789.9	1812.1	1631.0
52.5°	1584.4	1612.2	1743.6	1874.3	1900.7	1837.3	1823.4	1858.7	2019.8	2038.8	1773.6
55°	1460.4	1495.5	1716.6	1940.6	2037.5	2014.5	2062.6	2116.5	2271.2	2283.5	1920.0
57.5°	1382.0	1419.2	1636.8	1997.1	2201.9	2237.2	2313.5	2352.9	2530.6	2561.9	2088.1
60°	1315.9	1345.0	1571.2	2009.1	2368.9	2509.7	2583.8	2624.5	2850.7	2871.0	2273.1
62.5°	1205.8	1239.3	1460.4	1925.1	2452.9	2727.9	2881.5	2863.3	3098.3	3112.5	2386.6
65°	1029.0	1031.9	1235.6	1713.9	2366.2	2869.4	3090.5	3014.2	3216.6	3226.2	2377.8
67.5°	767.9	796.3	950.5	1347.2	1998.7	2748.5	3158.3	3018.3	3141.9	3115.1	2189.0
70°	494.7	516.4	644.3	934.2	1441.1	2293.7	2933.7	2811.4	2757.6	2698.1	1791.8
72.5°	228.3	256.2	382.7	533.7	854.7	1633.9	2381.5	2284.1	1984.8	1838.1	1139.0
75°	99.6	106.6	189.0	281.6	400.7	864.0	1570.1	1417.8	896.4	818.8	455.8
77.5°	60.7	65.3	99.1	151.0	157.4	329.3	845.9	618.6	277.0	244.4	123.6
80°	41.2	46.3	72.0	79.0	53.8	91.8	317.5	165.2	55.9	53.6	26.5
82.5°	20.1	25.4	53.2	44.2	23.3	29.4	92.3	35.3	16.3	15.2	9.3
85°	2.9	5.0	29.9	28.9	10.4	7.0	16.3	8.8	5.6	5.4	4.3
87.5°	0.0	0.0	10.2	4.5	1.1	1.1	1.9	1.9	2.1	1.9	2.1
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°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6
2.5°	698.9	700.2	695.2	687.9	680.1	672.4	661.4	651.5	645.6	649.1	640.5
5°	711.5	710.4	697.0	675.1	645.9	610.8	576.0	546.3	536.6	522.3	520.6
7.5°	728.9	726.0	697.5	647.2	581.4	515.5	451.3	408.7	384.3	363.7	364.3
10°	753.2	744.6	691.4	598.3	489.8	390.6	308.6	252.4	228.1	220.3	214.1
12.5°	778.4	761.8	674.2	532.1	381.4	266.8	187.6	153.4	138.3	133.6	133.0
15°	800.9	774.6	644.3	452.6	277.3	170.5	127.9	116.7	114.8	115.1	114.8
17.5°	823.1	784.8	602.8	368.3	188.5	122.4	110.0	107.3	108.2	109.2	108.9
20°	841.6	786.9	549.8	281.1	133.3	107.3	103.4	102.8	103.6	104.4	104.4
22.5°	861.6	788.5	486.9	194.6	108.9	99.8	97.7	97.7	98.7	99.8	100.1
25°	876.7	779.7	411.7	139.7	96.1	92.6	91.6	91.8	92.8	93.4	93.2
27.5°	879.0	754.8	331.9	107.1	87.3	83.8	82.7	83.8	82.4	83.3	82.7
30°	881.2	723.3	251.0	90.2	79.2	73.8	72.2	70.6	69.6	68.3	68.0
32.5°	887.8	686.0	183.3	81.1	71.7	65.9	62.1	57.5	54.1	53.0	52.7
35°	890.8	641.3	134.6	73.8	65.0	58.6	51.9	45.5	40.5	38.5	39.9
37.5°	902.1	598.0	104.4	68.5	59.1	51.1	42.6	34.6	29.7	28.7	29.2
40°	925.1	550.9	87.5	64.0	54.1	44.2	33.7	26.0	22.8	21.7	21.4
42.5°	962.0	504.0	77.9	59.7	48.9	37.2	26.5	20.4	17.7	16.9	16.9
45°	1007.0	459.0	71.2	55.2	43.6	29.9	20.9	16.3	14.7	14.2	14.2
47.5°	1066.1	419.7	65.6	50.6	37.8	23.8	16.9	14.2	13.1	13.4	13.6
50°	1126.1	390.6	59.5	45.5	31.0	19.5	14.5	12.6	12.3	12.6	12.6
52.5°	1171.3	373.4	51.1	38.5	24.4	16.3	12.9	11.8	11.5	10.9	10.9
55°	1232.3	369.6	40.7	31.3	19.3	13.6	11.5	10.7	9.9	9.3	9.1
57.5°	1310.8	373.9	31.3	24.4	15.0	11.3	10.2	8.8	7.7	6.7	6.7
60°	1359.5	364.3	24.4	18.8	10.9	9.1	7.7	6.4	5.0	4.3	4.0
62.5°	1344.0	323.6	19.3	14.0	7.7	6.7	5.0	4.3	2.9	2.1	1.9
65°	1263.9	261.2	15.6	9.7	5.6	4.0	2.7	2.7	1.3	0.3	0.0
67.5°	1106.3	193.5	12.3	6.4	3.2	1.9	1.3	0.8	0.0	0.0	0.0
70°	900.5	139.7	9.7	4.0	1.9	1.3	0.5	0.3	0.0	0.0	0.0
72.5°	571.7	80.1	7.5	2.4	1.3	0.5	0.0	0.0	0.0	0.0	0.0
75°	221.1	31.3	5.0	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	62.7	14.7	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.3	6.4	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.7	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.3	0.0	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)