

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: P450468

Luminaire Tested: **GALN-SA1B-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3920 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

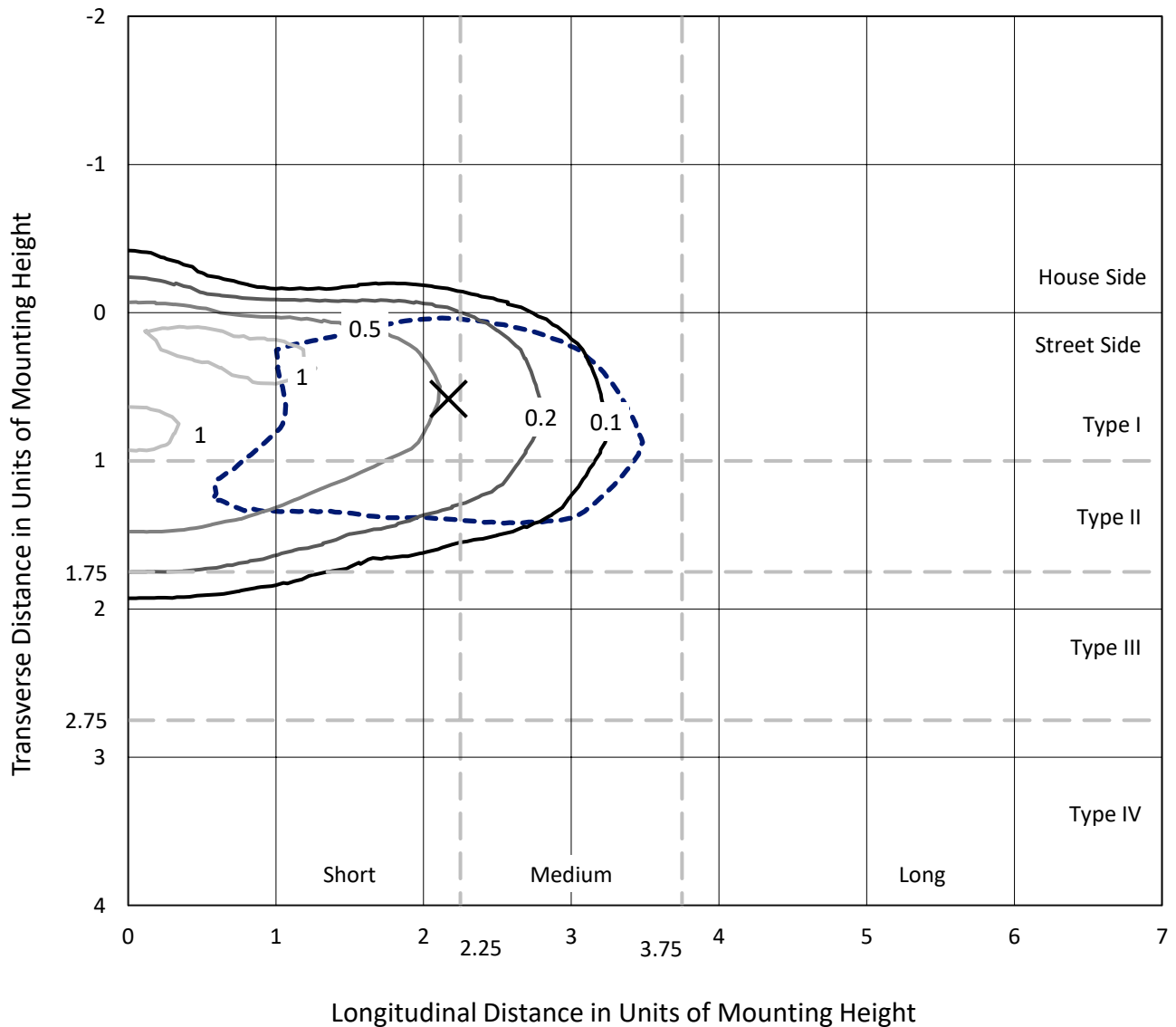
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

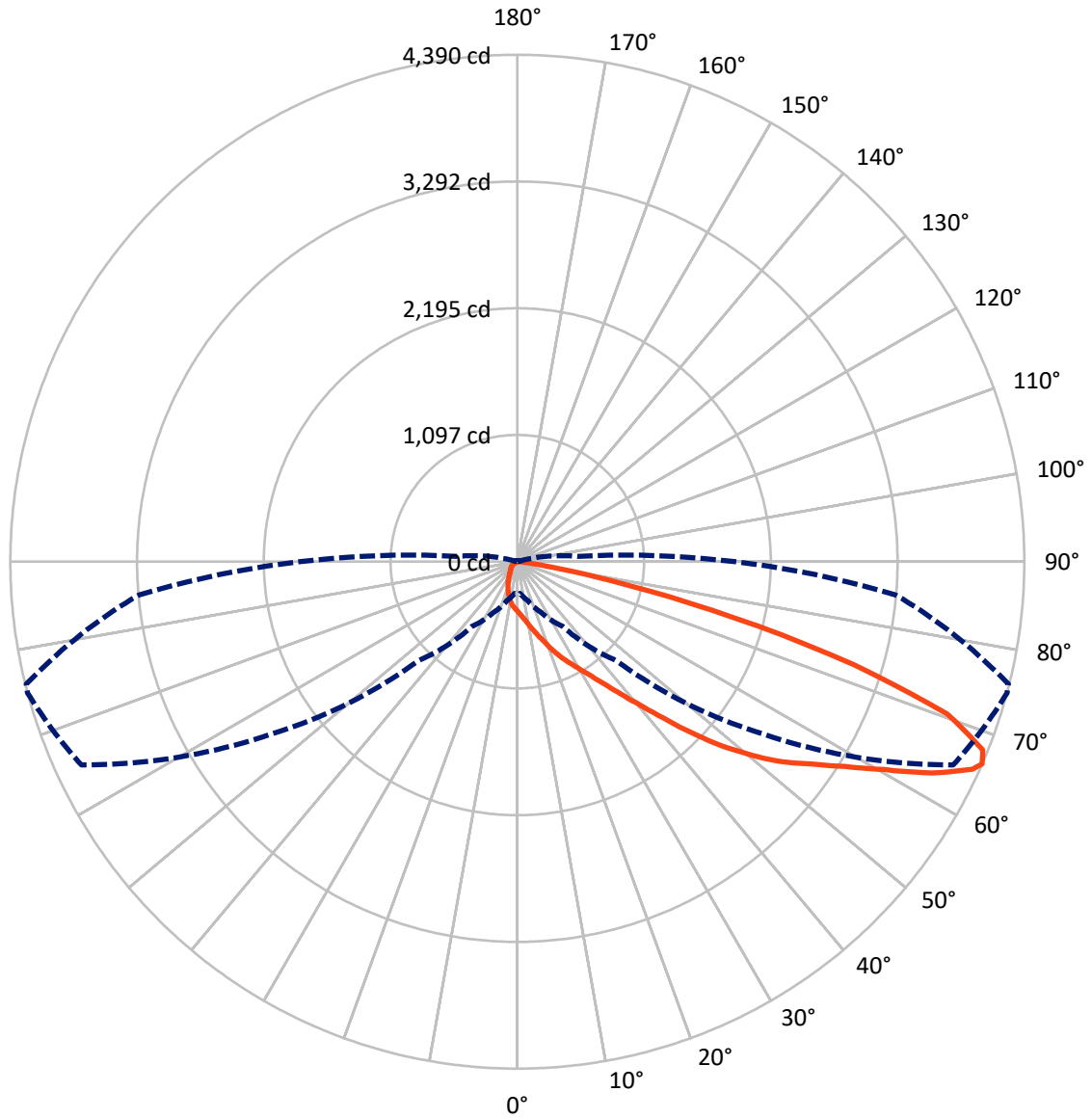
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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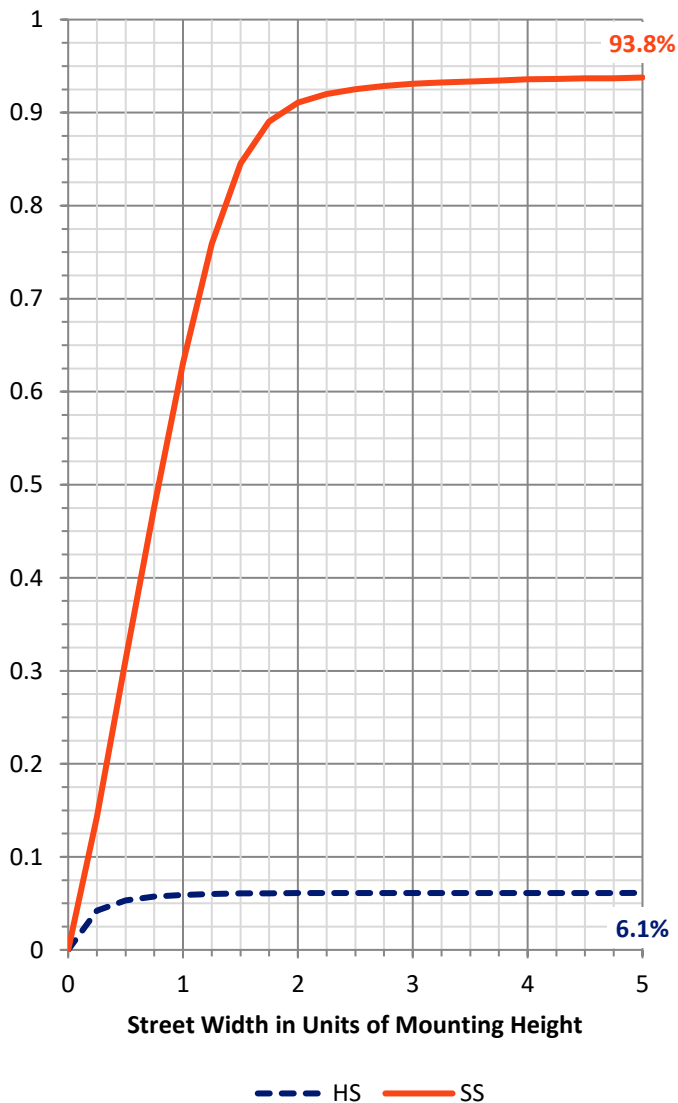
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	242.0	0.0	242.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3678.0	0.0	3678.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	3920.0	0.0	3920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.1
10°-20°	121.7	3.1
20°-30°	210.1	5.4
30°-40°	379.0	9.7
40°-50°	684.7	17.5
50°-60°	1067.5	27.2
60°-70°	1014.1	25.9
70°-80°	380.1	9.7
80°-90°	21.4	0.5
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°	3920.0	100.0
0°-180°	3920.0	100.0

Coefficient of Utilization



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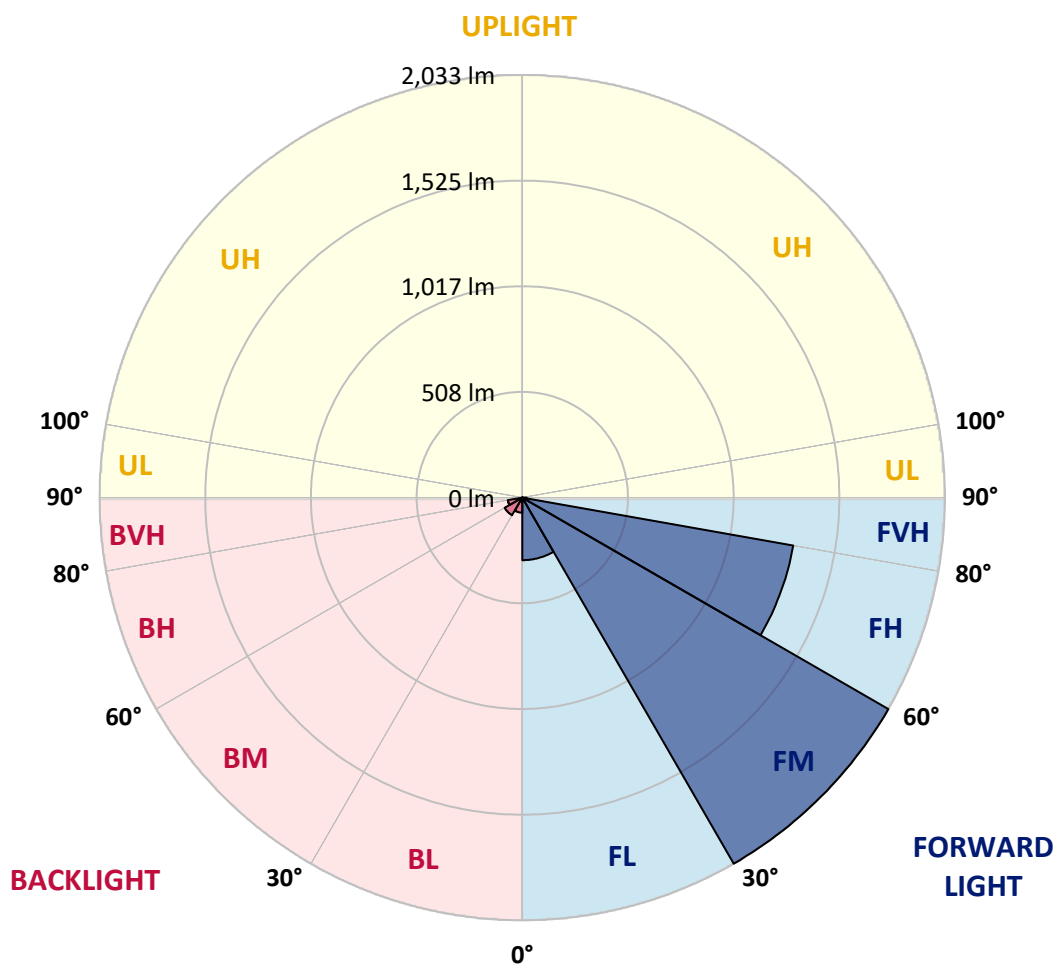
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.9	7.7			
FM (30°-60°)	2033.3	51.9			
FH (60°-80°)	1323.5	33.8			G1/1800
FVH (80°-90°)	20.3	0.5			G1/100
BL (0°-30°)	72.3	1.8	B0/110		
BM (30°-60°)	98.0	2.5	B0/220		
BH (60°-80°)	70.7	1.8	B0/110		G0/110
BVH (80°-90°)	1.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	512.2	505.8	507.8	504.9	498.3	488.4	479.7	467.2	454.8	452.7	438.8
5°	579.7	578.0	575.6	567.2	562.6	547.5	529.6	508.1	482.3	477.7	452.5
7.5°	625.8	624.9	626.1	621.7	617.7	604.1	584.9	555.6	515.6	513.0	471.0
10°	640.9	643.2	647.5	654.5	660.9	656.5	642.0	605.5	558.8	551.3	492.2
12.5°	632.2	634.8	645.2	663.8	684.3	696.2	690.4	663.8	604.6	598.5	515.9
15°	609.8	613.0	627.8	656.5	693.3	726.9	741.4	722.3	658.0	648.1	544.6
17.5°	576.8	581.4	602.6	640.6	691.0	749.0	789.8	783.5	714.8	705.5	575.9
20°	551.9	555.4	573.3	616.8	681.2	761.2	835.9	853.9	784.9	769.0	612.7
22.5°	568.4	569.6	575.6	601.7	663.5	764.3	876.5	927.2	859.4	845.2	651.0
25°	649.3	637.7	631.6	625.8	659.7	761.4	913.3	1003.8	933.6	918.5	689.0
27.5°	776.8	771.6	740.9	699.7	691.9	765.2	937.7	1076.2	1003.5	987.2	726.1
30°	915.6	906.7	887.8	827.5	766.9	791.9	955.4	1146.7	1086.1	1064.6	760.0
32.5°	1043.2	1049.0	1020.9	958.8	888.7	848.7	978.2	1223.5	1180.9	1154.2	799.4
35°	1191.9	1203.5	1160.3	1100.9	1018.8	951.3	1022.9	1310.1	1301.1	1267.5	860.3
37.5°	1342.9	1349.8	1323.5	1240.0	1166.1	1081.7	1106.9	1417.1	1449.3	1420.6	933.0
40°	1469.8	1479.4	1460.0	1385.8	1306.9	1232.7	1229.0	1533.6	1625.5	1595.9	1041.4
42.5°	1566.9	1574.2	1574.8	1522.3	1451.3	1417.7	1384.6	1682.3	1846.4	1812.2	1167.2
45°	1689.5	1700.0	1693.9	1658.2	1605.2	1599.1	1582.0	1862.0	2110.7	2067.5	1330.4
47.5°	1879.1	1886.1	1871.0	1829.0	1775.1	1784.6	1774.5	2063.5	2380.3	2343.2	1499.4
50°	2010.7	2022.3	2043.7	2060.6	2021.4	1986.1	1955.9	2251.6	2636.2	2602.9	1672.2
52.5°	2009.3	2028.4	2096.2	2180.8	2266.4	2255.6	2169.0	2459.4	2880.5	2839.4	1834.5
55°	1873.9	1911.0	2010.7	2160.8	2397.7	2515.6	2476.2	2700.0	3091.6	3063.7	2022.6
57.5°	1594.5	1617.1	1755.6	1965.5	2324.3	2637.9	2832.1	3026.1	3344.6	3331.6	2314.8
60°	1072.5	1082.6	1260.9	1520.3	1978.8	2515.9	3093.0	3420.5	3656.2	3649.8	2655.9
62.5°	614.5	618.8	748.1	966.9	1408.1	2132.1	3115.0	3907.2	4029.8	4033.3	3050.7
65°	330.7	333.0	437.4	567.5	856.8	1519.7	2801.1	4173.9	4331.8	4338.5	3295.3
66°	285.5	274.5	348.1	483.8	681.7	1209.6	2602.6	4164.3	4389.8	4382.6	3286.6
67.5°	217.1	227.0	278.0	371.9	505.2	860.0	2148.7	3979.1	4345.7	4323.1	3153.0
70°	155.4	159.4	198.0	265.2	344.1	471.9	1373.0	3304.9	3949.8	3919.4	2746.9
72.5°	100.3	104.6	140.3	191.9	248.7	257.7	768.7	2387.8	3045.2	3040.8	2068.7
75°	71.6	75.7	92.8	137.4	187.0	159.4	370.1	1609.3	1935.9	1922.9	1279.7
77.5°	51.9	53.9	62.0	89.9	133.6	114.2	171.6	859.4	963.8	1009.3	565.5
80°	29.9	31.6	43.2	54.8	90.4	78.0	82.0	344.9	355.6	338.5	176.8
82.5°	14.8	16.8	25.8	37.4	56.5	52.5	37.7	103.8	109.6	106.7	44.6
85°	3.5	4.3	14.5	24.6	27.5	23.5	18.3	30.4	37.7	36.8	17.1
87.5°	0.3	0.6	5.2	4.3	4.6	7.8	6.4	7.8	12.2	11.3	6.1
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°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	432.5	427.0	411.0	395.4	382.3	368.7	356.2	349.0	346.1	342.9	344.3
5°	438.5	425.2	393.0	365.2	338.0	314.8	296.2	284.3	278.5	277.7	276.2
7.5°	446.7	423.8	373.9	330.4	294.8	269.0	247.8	230.7	225.5	220.9	217.1
10°	456.5	421.2	350.1	293.9	255.9	223.5	195.6	175.4	164.9	162.0	164.1
12.5°	467.0	416.2	325.2	260.3	216.5	175.1	149.3	139.1	136.2	135.1	135.4
15°	477.4	410.1	299.1	227.8	172.5	139.7	127.8	125.2	124.1	123.5	122.9
17.5°	487.0	400.3	269.9	196.2	139.7	119.4	115.1	112.8	110.4	109.6	108.1
20°	498.3	389.0	243.5	160.9	118.3	108.1	102.9	98.5	95.1	92.8	92.5
22.5°	509.0	374.5	215.9	133.3	107.8	97.1	88.7	84.1	80.0	77.1	78.0
25°	514.8	356.8	191.3	116.2	98.3	86.1	76.8	71.0	66.7	65.2	64.9
27.5°	514.8	335.1	167.2	106.4	89.6	76.2	66.7	61.2	58.3	56.2	56.5
30°	510.7	311.0	144.9	98.8	82.0	67.5	58.6	53.6	51.3	49.9	49.6
32.5°	507.5	288.1	125.8	91.6	74.2	60.0	52.2	48.4	46.1	44.6	44.6
35°	512.5	268.4	111.0	84.3	67.0	54.2	47.2	43.8	41.4	40.3	40.0
37.5°	525.5	250.4	99.7	76.5	60.3	49.3	43.8	39.7	37.4	35.9	35.4
40°	557.7	240.3	91.3	69.3	53.9	45.2	39.7	35.9	33.0	31.6	31.3
42.5°	609.3	240.6	83.2	62.6	49.0	41.7	36.2	31.9	28.7	27.2	27.0
45°	686.9	251.6	76.8	56.2	44.6	38.0	32.5	27.8	24.9	23.5	23.5
47.5°	780.0	273.0	71.3	50.7	40.6	34.5	28.7	24.1	21.2	20.0	20.0
50°	880.9	300.9	65.8	44.9	37.1	30.7	24.6	20.9	18.6	17.7	17.7
52.5°	983.8	334.5	60.3	40.3	33.3	26.7	21.2	18.6	16.5	15.9	15.7
55°	1118.8	377.4	54.5	35.4	29.3	22.9	18.8	16.2	13.9	13.0	12.8
57.5°	1326.7	442.0	48.1	31.0	24.1	19.1	16.2	13.6	11.0	9.6	9.3
60°	1577.4	520.9	41.4	27.2	19.4	15.7	13.0	10.4	8.1	6.4	6.1
62.5°	1812.2	571.0	35.1	22.9	15.4	11.9	9.3	7.8	5.8	4.1	3.8
65°	1915.9	554.2	29.0	18.6	12.2	8.4	6.1	5.5	3.5	1.7	1.4
66°	1881.4	529.3	26.7	16.8	11.0	7.2	5.2	4.6	2.6	0.9	0.9
67.5°	1779.7	470.4	23.2	14.5	9.6	5.8	4.1	3.5	1.4	0.3	0.0
70°	1524.9	380.6	18.3	10.7	7.0	4.1	2.3	1.7	0.9	0.0	0.0
72.5°	1171.3	283.5	14.5	8.1	4.9	2.3	1.2	0.6	0.9	0.0	0.0
75°	717.7	162.0	11.3	6.1	3.2	1.4	0.9	0.0	0.9	0.3	0.0
77.5°	318.5	72.8	7.5	4.1	2.3	1.2	0.6	0.0	0.6	0.3	0.0
80°	80.6	23.8	4.3	2.9	1.7	0.9	0.3	0.0	0.6	0.6	0.3
82.5°	22.0	8.7	3.2	2.3	1.4	0.9	0.3	0.0	0.6	0.6	0.6
85°	8.7	4.1	2.9	2.3	1.7	0.9	0.3	0.0	0.6	0.6	0.6
87.5°	4.1	2.9	2.9	2.6	2.0	0.9	0.3	0.0	0.6	0.3	0.6
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)