

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: P451396

Luminaire Tested: **GALN-SA2B-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451396
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-SA2B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7790 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

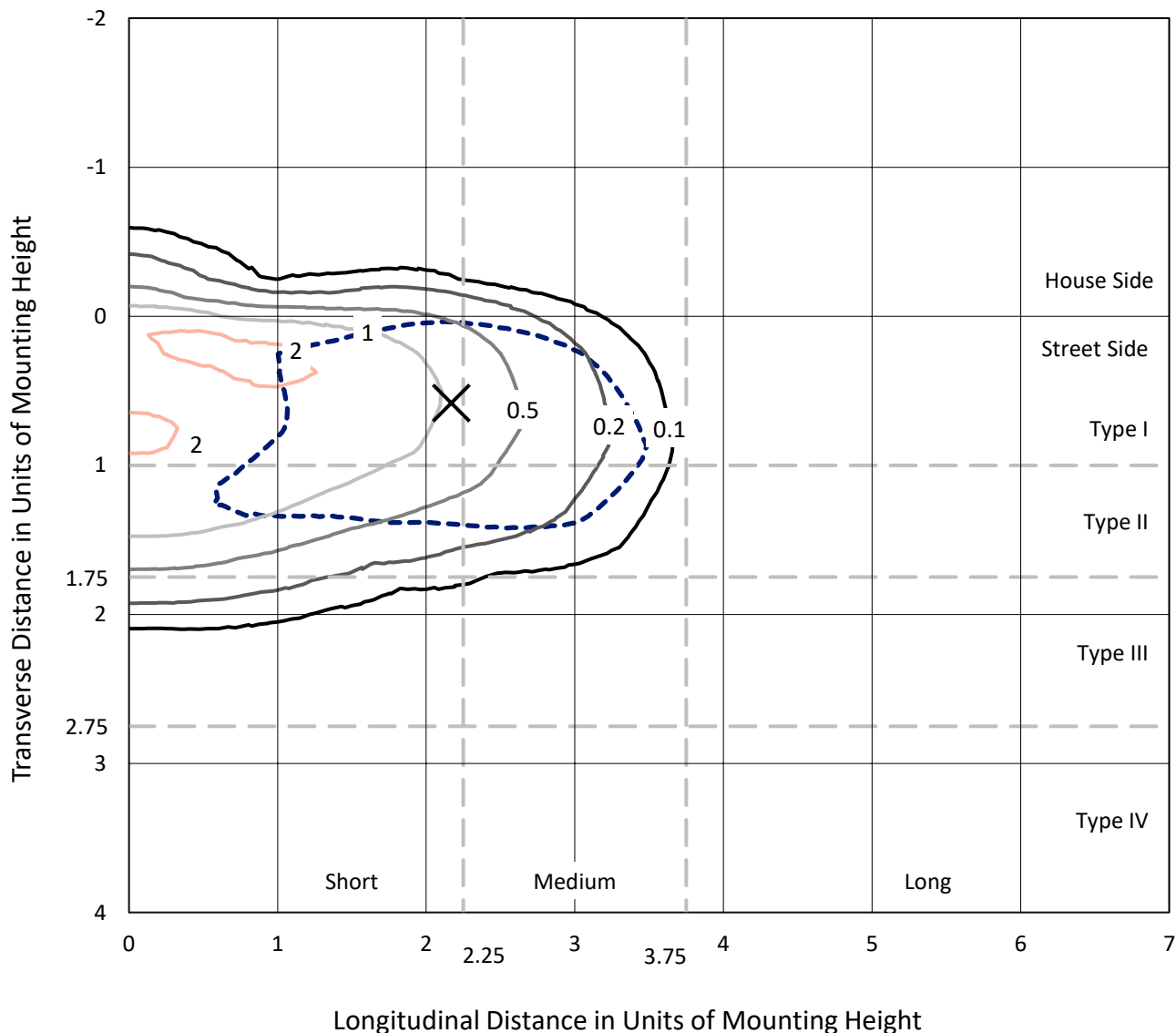
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

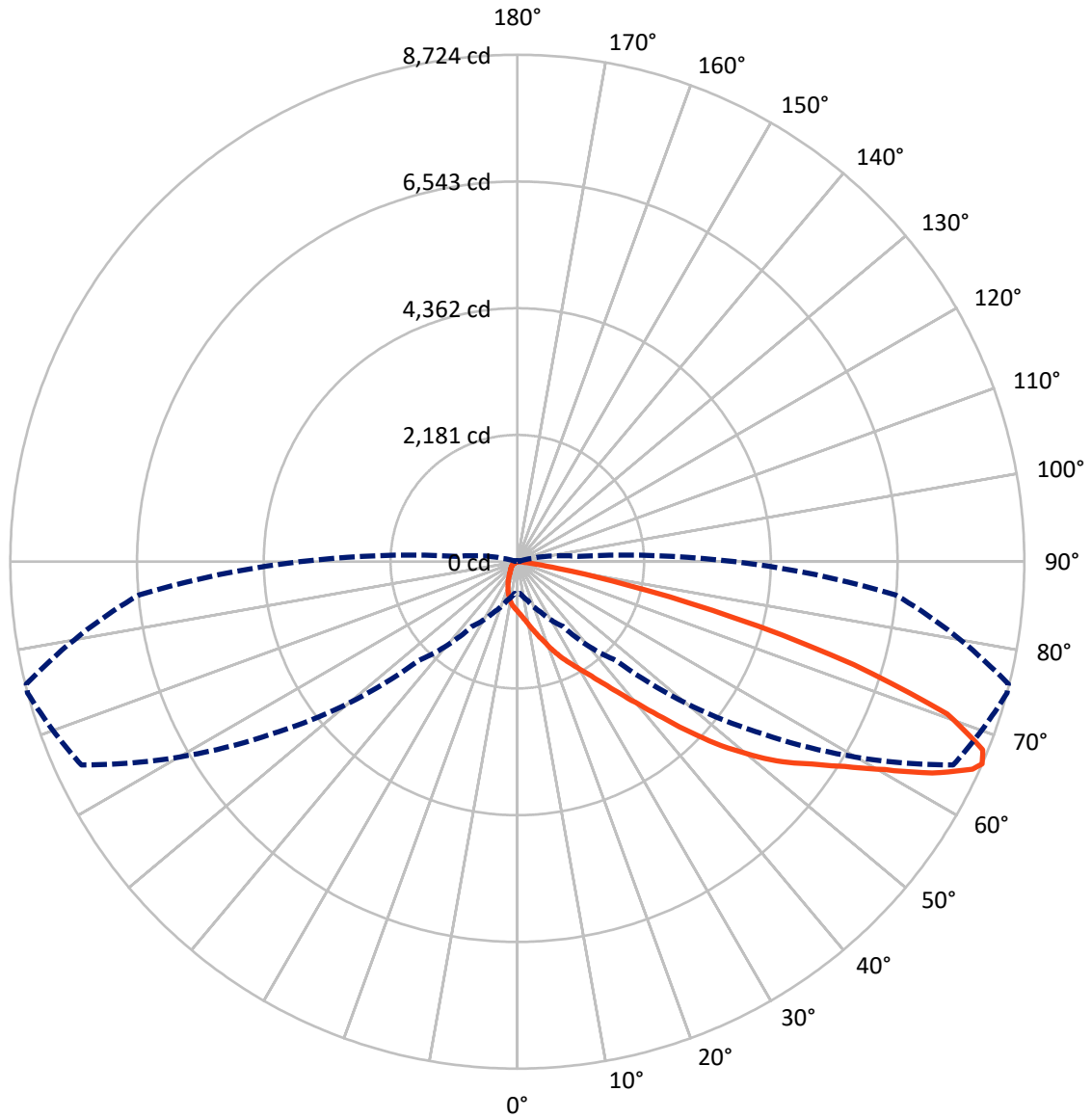
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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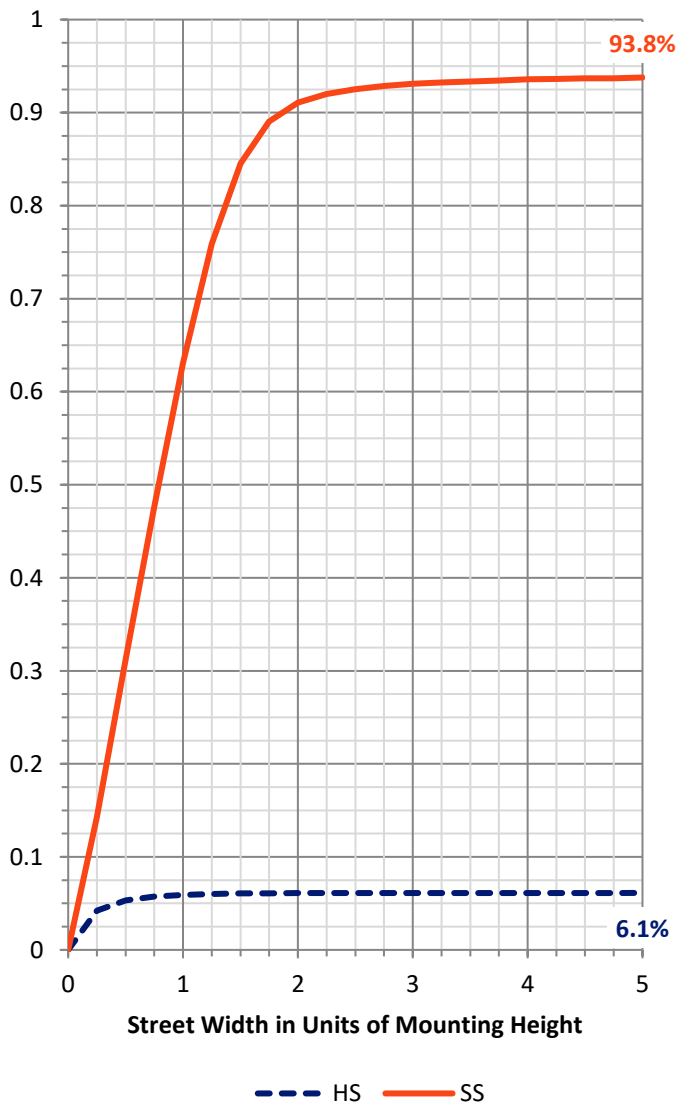
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.9	0.0	480.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7309.1	0.0	7309.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	7790.0	0.0	7790.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.1
10°-20°	241.8	3.1
20°-30°	417.6	5.4
30°-40°	753.2	9.7
40°-50°	1360.7	17.5
50°-60°	2121.4	27.2
60°-70°	2015.2	25.9
70°-80°	755.3	9.7
80°-90°	42.6	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°	7790.0	100.0
0°-180°	7790.0	100.0



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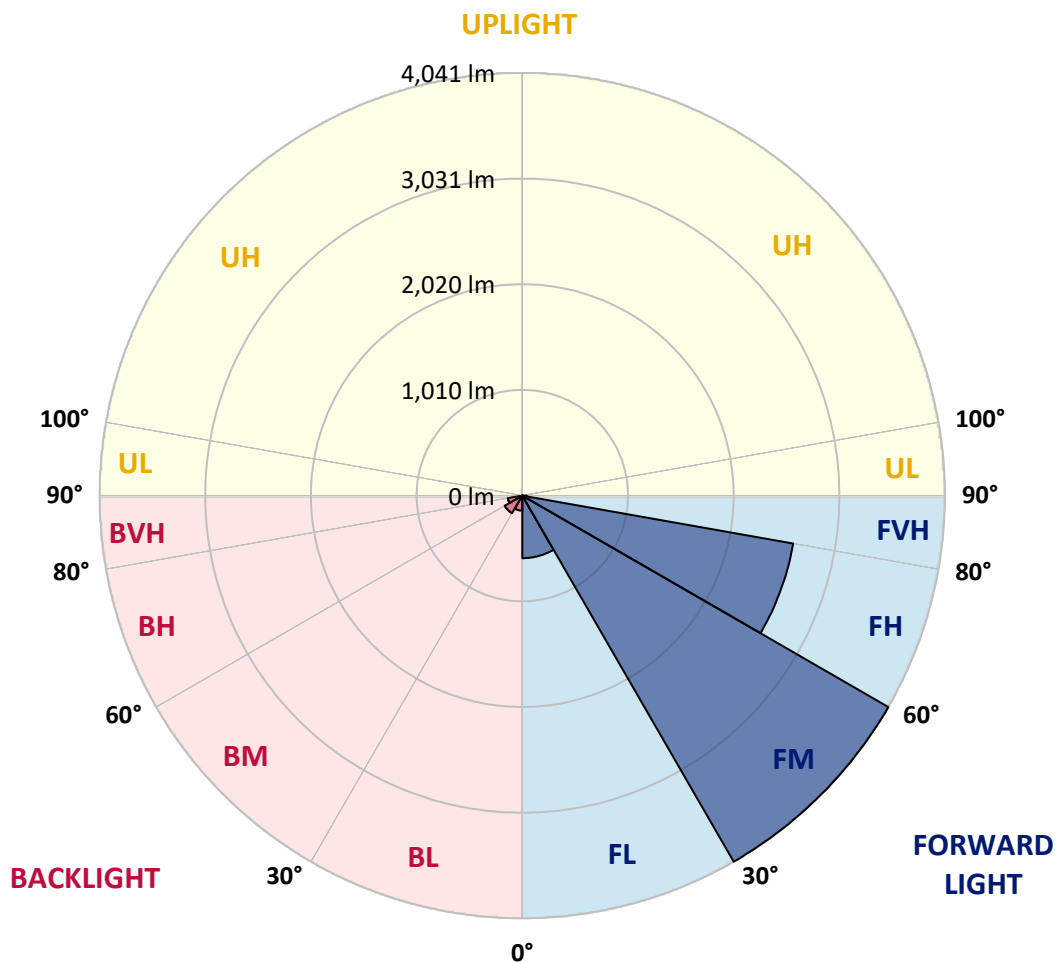
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.9	7.7			
FM (30°-60°)	4040.7	51.9			
FH (60°-80°)	2630.0	33.8			G2/5000
FVH (80°-90°)	40.4	0.5			G1/100
BL (0°-30°)	143.6	1.8	B1/500		
BM (30°-60°)	194.7	2.5	B0/220		
BH (60°-80°)	140.4	1.8	B1/500		G1/500
BVH (80°-90°)	2.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9
2.5°	1017.8	1005.1	1009.2	1003.4	990.2	970.6	953.3	928.5	903.8	899.7	872.1
5°	1152.0	1148.6	1143.9	1127.2	1118.0	1088.1	1052.4	1009.7	958.5	949.3	899.1
7.5°	1243.6	1241.9	1244.2	1235.5	1227.5	1200.4	1162.4	1104.2	1024.7	1019.5	936.0
10°	1273.6	1278.2	1286.8	1300.6	1313.3	1304.7	1275.9	1203.3	1110.5	1095.6	978.1
12.5°	1256.3	1261.5	1282.2	1319.1	1360.0	1383.6	1372.0	1319.1	1201.5	1189.5	1025.3
15°	1211.9	1218.3	1247.6	1304.7	1377.8	1444.6	1473.4	1435.4	1307.5	1288.0	1082.3
17.5°	1146.3	1155.5	1197.5	1273.0	1373.2	1488.4	1569.6	1556.9	1420.4	1402.0	1144.5
20°	1096.7	1103.6	1139.3	1225.7	1353.6	1512.6	1661.2	1696.9	1559.8	1528.1	1217.7
22.5°	1129.5	1131.9	1143.9	1195.8	1318.5	1518.9	1741.8	1842.6	1707.9	1679.6	1293.7
25°	1290.3	1267.2	1255.1	1243.6	1311.0	1513.2	1815.0	1994.7	1855.3	1825.4	1369.2
27.5°	1543.7	1533.3	1472.3	1390.5	1374.9	1520.7	1863.4	2138.7	1994.1	1961.9	1442.9
30°	1819.6	1801.7	1764.3	1644.5	1524.1	1573.6	1898.5	2278.7	2158.3	2115.7	1510.3
32.5°	2073.0	2084.6	2028.7	1905.4	1766.0	1686.5	1944.0	2431.3	2346.7	2293.7	1588.6
35°	2368.5	2391.6	2305.8	2187.7	2024.7	1890.5	2032.7	2603.5	2585.7	2518.9	1709.6
37.5°	2668.6	2682.5	2630.0	2464.2	2317.3	2149.7	2199.8	2816.1	2880.0	2823.0	1854.2
40°	2920.9	2939.9	2901.3	2753.9	2597.2	2449.8	2442.3	3047.6	3230.2	3171.5	2069.6
42.5°	3113.9	3128.3	3129.4	3025.2	2884.1	2817.2	2751.6	3343.1	3669.2	3601.2	2319.6
45°	3357.5	3378.3	3366.2	3295.3	3189.9	3177.8	3143.8	3700.3	4194.5	4108.7	2643.9
47.5°	3734.2	3748.1	3718.1	3634.6	3527.5	3546.5	3526.3	4100.6	4730.2	4656.4	2979.7
50°	3995.8	4018.8	4061.4	4094.8	4017.1	3946.8	3886.9	4474.4	5238.8	5172.5	3323.0
52.5°	3992.9	4030.9	4165.7	4333.9	4503.8	4482.5	4310.3	4887.4	5724.4	5642.6	3645.5
55°	3723.9	3797.6	3995.8	4294.1	4764.7	4999.2	4920.8	5365.5	6143.7	6088.4	4019.4
57.5°	3168.6	3213.5	3488.9	3905.9	4619.0	5242.2	5628.2	6013.5	6646.5	6620.6	4600.0
60°	2131.2	2151.4	2505.6	3021.2	3932.4	4999.7	6146.6	6797.5	7265.7	7253.1	5277.9
62.5°	1221.1	1229.8	1486.7	1921.6	2798.2	4237.1	6190.3	7764.6	8008.2	8015.1	6062.5
65°	657.2	661.8	869.2	1127.8	1702.7	3020.0	5566.5	8294.5	8608.4	8621.7	6548.6
66°	567.4	545.5	691.8	961.4	1354.8	2403.7	5172.0	8275.5	8723.6	8709.2	6531.3
67.5°	431.4	451.0	552.4	739.0	1004.0	1709.0	4269.9	7907.4	8636.1	8591.1	6265.8
70°	308.7	316.8	393.4	527.0	683.7	937.7	2728.5	6567.6	7849.2	7788.8	5458.8
72.5°	199.3	207.9	278.8	381.3	494.2	512.1	1527.6	4745.1	6051.5	6042.9	4111.0
75°	142.3	150.3	184.3	273.0	371.5	316.8	735.6	3198.0	3847.1	3821.2	2543.1
77.5°	103.1	107.1	123.3	178.6	265.5	226.9	341.0	1707.9	1915.2	2005.7	1123.8
80°	59.3	62.8	85.8	108.9	179.7	154.9	163.0	685.4	706.8	672.8	351.4
82.5°	29.4	33.4	51.3	74.3	112.3	104.3	74.9	206.2	217.7	212.0	88.7
85°	6.9	8.6	28.8	49.0	54.7	46.7	36.3	60.5	74.9	73.2	34.0
87.5°	0.6	1.2	10.4	8.6	9.2	15.6	12.7	15.6	24.2	22.5	12.1
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°	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9	851.9
2.5°	859.4	848.5	816.8	785.7	759.8	732.7	707.9	693.5	687.8	681.4	684.3
5°	871.5	845.0	781.1	725.8	671.6	625.5	588.7	565.1	553.5	551.8	548.9
7.5°	887.6	842.1	743.0	656.6	585.8	534.5	492.5	458.5	448.1	438.9	431.4
10°	907.2	836.9	695.8	584.1	508.6	444.1	388.8	348.5	327.7	322.0	326.0
12.5°	927.9	827.1	646.3	517.3	430.3	347.9	296.6	276.5	270.7	268.4	269.0
15°	948.7	815.0	594.4	452.7	342.7	277.6	254.0	248.8	246.5	245.4	244.2
17.5°	967.7	795.5	536.3	390.0	277.6	237.3	228.7	224.1	219.5	217.7	214.9
20°	990.2	773.0	483.8	319.7	235.0	214.9	204.5	195.8	188.9	184.3	183.7
22.5°	1011.5	744.2	429.1	265.0	214.3	193.0	176.3	167.0	159.0	153.2	154.9
25°	1023.0	709.1	380.2	231.0	195.3	171.1	152.6	141.1	132.5	129.6	129.0
27.5°	1023.0	665.9	332.4	211.4	178.0	151.5	132.5	121.5	115.8	111.7	112.3
30°	1014.9	618.1	288.0	196.4	163.0	134.2	116.4	106.6	102.0	99.1	98.5
32.5°	1008.6	572.6	250.0	182.0	147.5	119.2	103.7	96.2	91.6	88.7	88.7
35°	1018.4	533.4	220.6	167.6	133.1	107.7	93.9	87.0	82.4	80.1	79.5
37.5°	1044.3	497.7	198.1	152.1	119.8	97.9	87.0	78.9	74.3	71.4	70.3
40°	1108.2	477.5	181.4	137.7	107.1	89.9	78.9	71.4	65.7	62.8	62.2
42.5°	1210.8	478.1	165.3	124.4	97.3	82.9	72.0	63.4	57.0	54.1	53.6
45°	1365.1	500.0	152.6	111.7	88.7	75.5	64.5	55.3	49.5	46.7	46.7
47.5°	1550.0	542.6	141.7	100.8	80.6	68.5	57.0	47.8	42.0	39.7	39.7
50°	1750.5	597.9	130.8	89.3	73.7	61.1	49.0	41.5	36.9	35.1	35.1
52.5°	1955.0	664.7	119.8	80.1	66.2	53.0	42.0	36.9	32.8	31.7	31.1
55°	2223.4	750.0	108.3	70.3	58.2	45.5	37.4	32.3	27.6	25.9	25.3
57.5°	2636.4	878.4	95.6	61.6	47.8	38.0	32.3	27.1	21.9	19.0	18.4
60°	3134.6	1035.1	82.4	54.1	38.6	31.1	25.9	20.7	16.1	12.7	12.1
62.5°	3601.2	1134.7	69.7	45.5	30.5	23.6	18.4	15.6	11.5	8.1	7.5
65°	3807.4	1101.3	57.6	36.9	24.2	16.7	12.1	10.9	6.9	3.5	2.9
66°	3738.9	1051.8	53.0	33.4	21.9	14.4	10.4	9.2	5.2	1.7	1.7
67.5°	3536.7	934.9	46.1	28.8	19.0	11.5	8.1	6.9	2.9	0.6	0.0
70°	3030.4	756.3	36.3	21.3	13.8	8.1	4.6	3.5	1.7	0.0	0.0
72.5°	2327.6	563.3	28.8	16.1	9.8	4.6	2.3	1.2	1.7	0.0	0.0
75°	1426.2	322.0	22.5	12.1	6.3	2.9	1.7	0.0	1.7	0.6	0.0
77.5°	633.0	144.6	15.0	8.1	4.6	2.3	1.2	0.0	1.2	0.6	0.0
80°	160.1	47.2	8.6	5.8	3.5	1.7	0.6	0.0	1.2	1.2	0.6
82.5°	43.8	17.3	6.3	4.6	2.9	1.7	0.6	0.0	1.2	1.2	1.2
85°	17.3	8.1	5.8	4.6	3.5	1.7	0.6	0.0	1.2	1.2	1.2
87.5°	8.1	5.8	5.8	5.2	4.0	1.7	0.6	0.0	1.2	0.6	1.2
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)