

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: P450457

Luminaire Tested: **GALN-SA1B-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4291 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

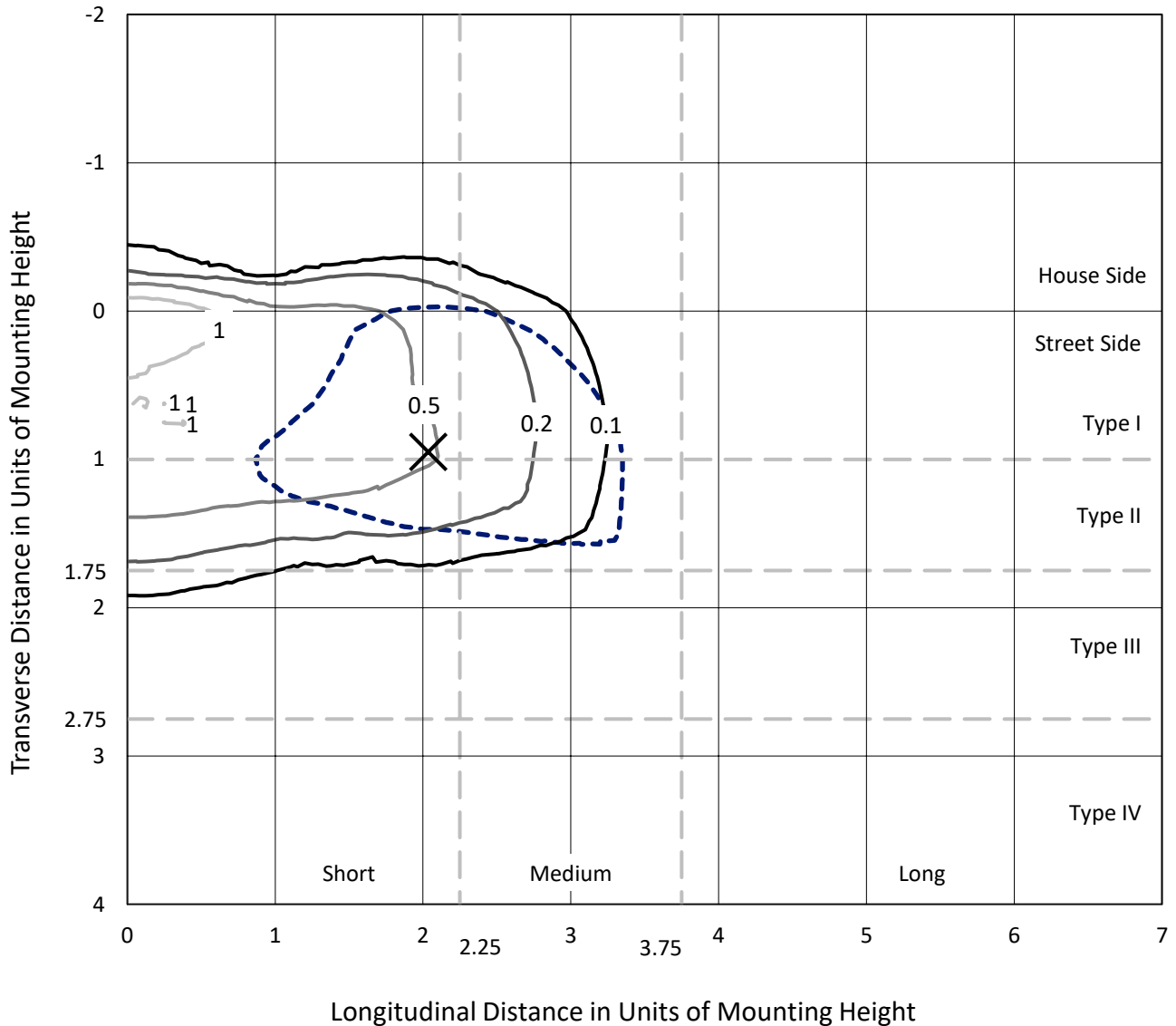
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

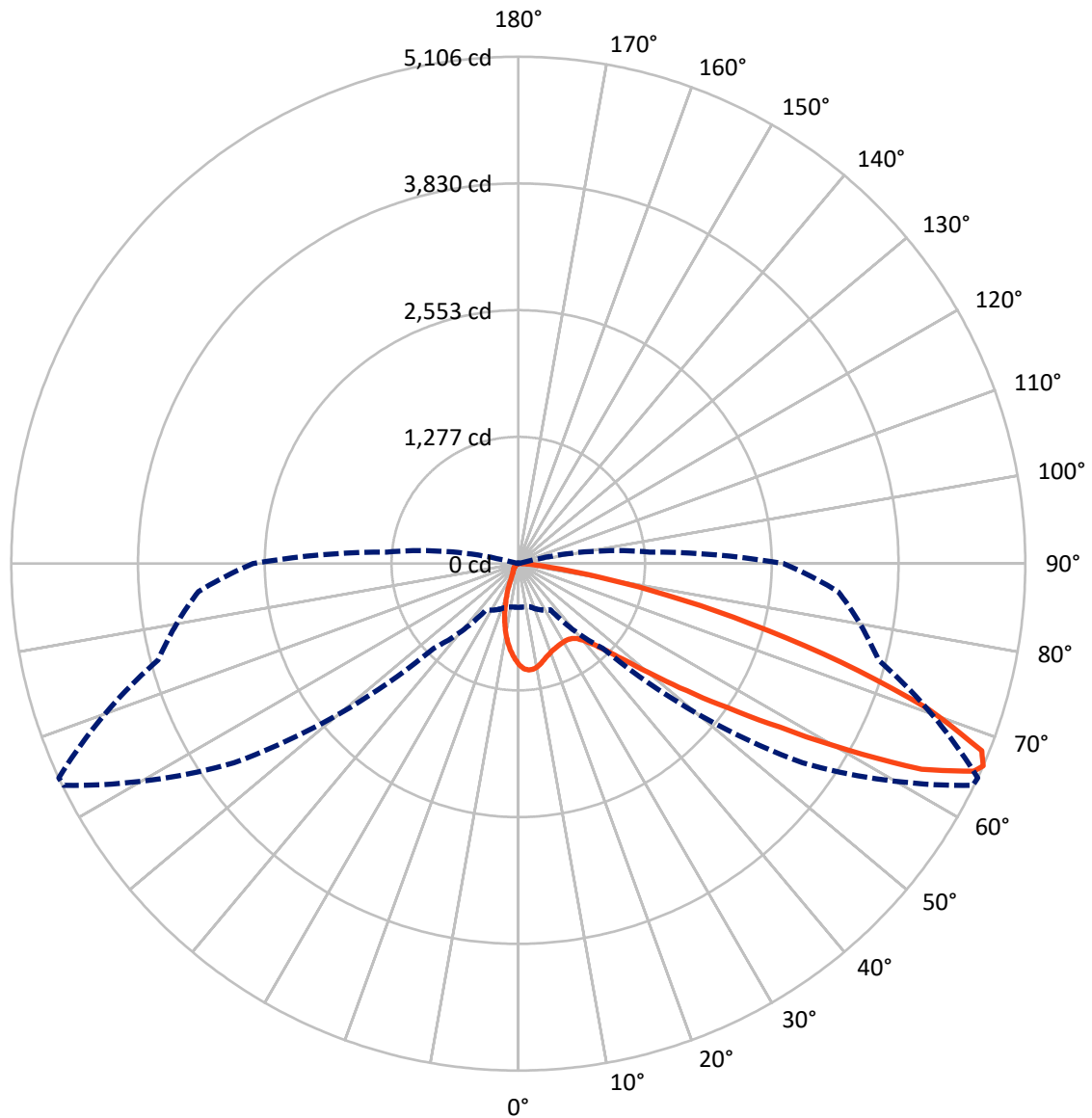
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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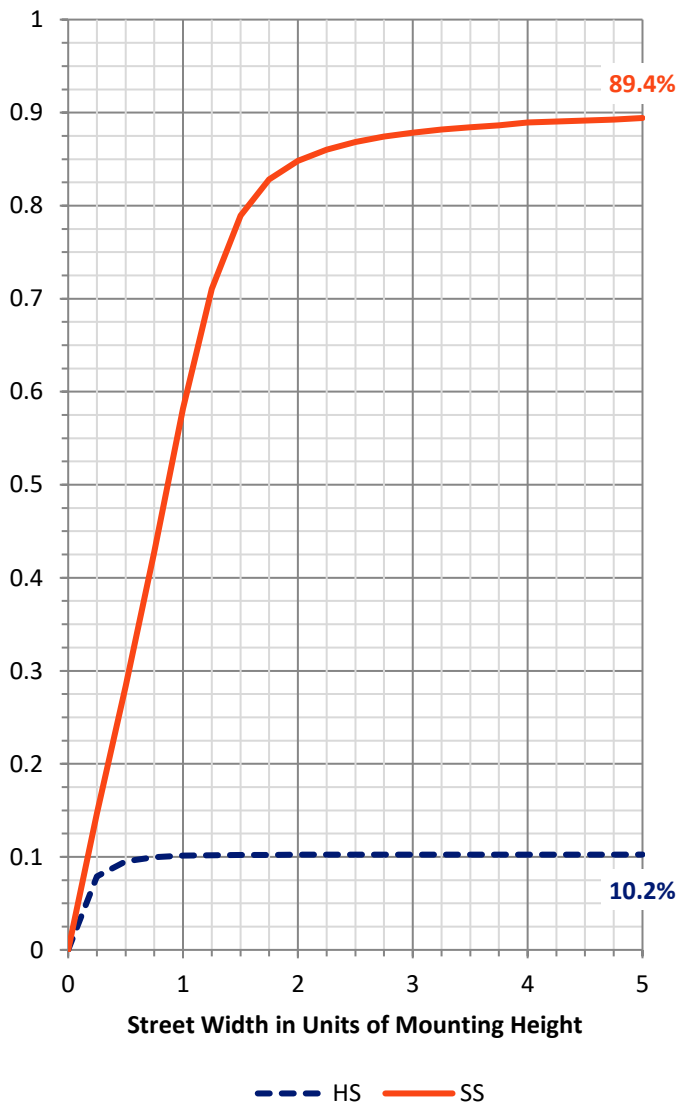
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.8	0.0	443.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3847.2	0.0	3847.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	4291.0	0.0	4291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.9
10°-20°	181.3	4.2
20°-30°	259.7	6.1
30°-40°	379.4	8.8
40°-50°	636.2	14.8
50°-60°	1061.7	24.7
60°-70°	1126.9	26.3
70°-80°	510.4	11.9
80°-90°	52.2	1.2
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°	4291.0	100.0
0°-180°	4291.0	100.0

Coefficient of Utilization



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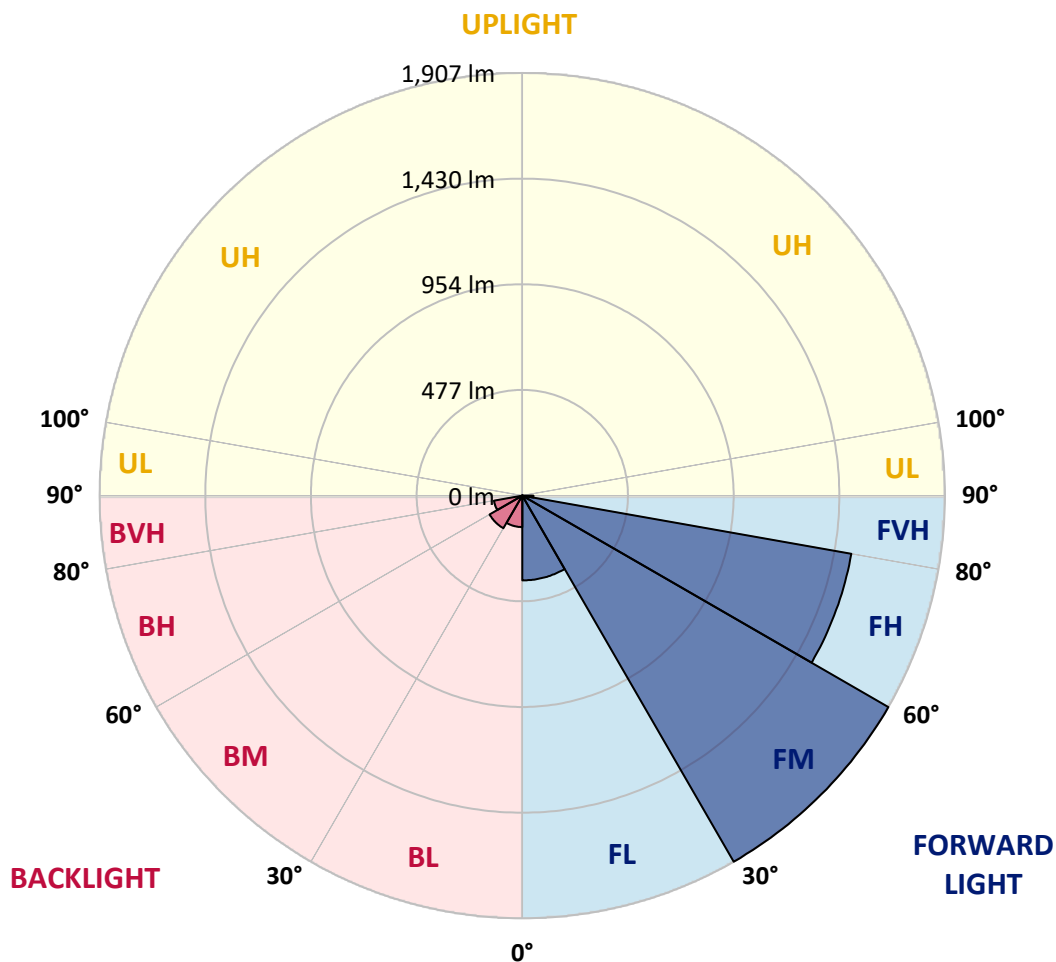
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.3	8.9			
FM (30°-60°)	1907.0	44.4			
FH (60°-80°)	1507.3	35.1			G1/1800
FVH (80°-90°)	50.6	1.2			G1/100
BL (0°-30°)	142.0	3.3	B1/500		
BM (30°-60°)	170.2	4.0	B0/220		
BH (60°-80°)	130.0	3.0	B1/500		G1/500
BVH (80°-90°)	1.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6
2.5°	1072.3	1073.5	1074.9	1077.0	1078.4	1074.1	1068.0	1061.0	1059.6	1044.8	1026.8
5°	1014.9	1016.7	1029.4	1036.4	1052.0	1066.2	1075.2	1076.4	1075.8	1061.9	1033.2
7.5°	933.2	938.1	950.6	962.8	992.1	1019.0	1050.9	1073.2	1074.6	1070.9	1035.2
10°	866.8	870.0	876.4	900.5	924.8	966.0	1010.6	1052.6	1056.1	1071.2	1033.5
12.5°	815.0	819.6	827.4	846.0	875.3	914.1	964.8	1021.3	1028.6	1065.7	1028.6
15°	778.7	781.1	788.9	807.1	835.5	871.5	922.8	988.6	994.9	1058.4	1027.7
17.5°	761.6	764.3	769.8	784.3	807.7	841.1	891.2	962.2	970.3	1053.8	1030.9
20°	766.3	768.6	768.9	776.4	792.4	820.5	868.0	937.6	948.0	1050.9	1036.1
22.5°	792.7	792.9	789.5	786.0	791.5	811.8	853.8	921.9	932.6	1050.3	1042.2
25°	832.1	832.9	827.1	815.0	804.0	814.4	850.6	911.8	921.3	1048.9	1046.0
27.5°	886.6	886.3	884.5	864.2	832.9	826.0	853.2	906.3	914.4	1044.8	1047.4
30°	962.8	960.5	956.7	933.8	886.0	854.1	864.2	902.8	910.3	1039.0	1043.6
32.5°	1037.8	1046.5	1046.0	1024.2	964.5	904.2	887.1	907.4	912.9	1035.2	1038.1
35°	1125.4	1125.1	1147.4	1139.3	1069.4	968.3	926.3	922.8	927.1	1037.8	1035.5
37.5°	1206.5	1214.1	1248.8	1257.2	1193.5	1058.7	981.6	955.8	957.3	1055.5	1041.9
40°	1307.7	1322.2	1374.0	1402.1	1345.9	1192.9	1063.3	1016.4	1016.7	1099.0	1066.0
42.5°	1438.1	1461.0	1509.4	1556.3	1526.2	1351.7	1185.9	1112.3	1111.7	1175.5	1121.0
45°	1596.6	1612.6	1667.6	1742.1	1723.0	1573.4	1364.5	1261.0	1253.5	1301.0	1218.7
47.5°	1733.4	1755.1	1811.1	1896.0	1982.9	1844.1	1577.8	1465.3	1460.4	1500.7	1386.2
50°	1793.1	1812.2	1871.1	1990.2	2200.9	2199.4	1895.4	1763.5	1755.1	1776.9	1645.3
52.5°	1727.6	1745.6	1805.0	1953.4	2303.5	2632.4	2355.6	2137.7	2127.6	2099.7	1954.8
55°	1503.3	1518.1	1605.9	1776.3	2264.1	2921.1	2989.8	2600.0	2560.6	2452.4	2305.2
57.5°	1197.0	1189.4	1243.9	1441.8	2032.8	3017.9	3640.7	3175.8	3105.4	2757.3	2601.7
60°	829.5	852.6	874.7	1005.1	1528.5	2850.1	4045.6	3899.8	3807.1	3057.3	2885.7
62.5°	609.8	625.1	639.6	699.9	961.0	2275.7	4117.2	4643.5	4561.2	3375.8	3156.7
65°	482.3	483.4	489.2	548.6	633.3	1479.8	3773.2	5062.8	5041.7	3682.4	3266.5
66°	439.4	439.7	448.6	512.4	568.3	1205.1	3497.5	5094.7	5106.3	3756.1	3234.4
67.5°	384.0	382.9	395.9	460.5	517.6	868.9	3004.3	4965.5	5034.2	3812.6	3118.7
70°	297.6	296.2	312.1	386.3	476.8	579.6	1996.9	4263.5	4374.2	3696.9	2759.4
72.5°	198.2	199.4	226.6	304.9	455.0	510.4	1201.3	3243.4	3399.9	3053.0	2170.7
75°	115.6	117.7	148.7	226.6	395.0	486.6	679.9	2312.8	2412.7	2108.1	1352.3
77.5°	60.6	61.4	83.2	149.5	302.9	451.8	453.0	1477.5	1524.4	1024.5	535.3
80°	32.2	31.3	44.6	90.1	208.4	396.8	367.5	782.2	813.2	304.3	135.3
82.5°	12.2	13.3	23.8	59.1	123.2	284.9	316.5	345.8	335.0	66.9	56.8
85°	2.3	2.9	10.1	35.1	62.0	119.1	233.3	169.5	157.1	25.2	32.7
87.5°	0.3	0.6	2.9	8.4	9.0	40.3	69.0	47.0	40.6	9.3	13.6
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°	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6
2.5°	1018.1	1010.3	984.2	958.4	932.1	908.3	892.1	865.7	859.0	849.5	844.0
5°	1016.1	997.8	947.7	892.9	841.9	786.9	744.8	704.3	682.5	671.5	667.5
7.5°	1010.3	981.3	903.1	817.3	735.6	653.3	581.7	527.2	492.1	468.1	451.8
10°	998.7	958.7	851.2	733.2	609.8	501.1	410.4	341.4	288.1	271.3	271.9
12.5°	986.8	933.5	793.2	639.9	486.9	349.8	253.6	199.1	173.6	165.2	163.5
15°	975.8	909.5	736.4	549.5	362.6	226.6	163.5	144.3	137.4	135.9	135.6
17.5°	970.0	887.1	675.9	446.0	253.0	153.9	131.0	125.8	123.8	122.3	121.7
20°	965.1	867.7	617.9	349.2	173.0	126.1	117.4	112.4	109.0	107.5	106.7
22.5°	961.6	847.7	557.9	270.4	132.4	111.9	104.0	97.7	92.7	91.0	89.8
25°	956.4	825.7	497.3	197.7	111.6	99.4	90.4	82.9	76.5	73.3	72.7
27.5°	948.9	800.8	431.0	146.4	99.7	88.4	77.4	68.1	61.7	58.3	58.5
30°	936.7	774.7	364.6	116.2	90.1	77.1	65.2	56.2	50.1	47.5	47.2
32.5°	922.2	743.1	303.7	99.7	81.4	66.9	54.5	46.7	42.0	40.0	39.7
35°	908.6	711.2	241.7	89.6	72.5	57.7	45.8	39.1	35.6	33.9	34.2
37.5°	901.0	682.8	188.4	81.4	65.2	49.6	39.4	33.6	30.4	29.0	28.7
40°	906.0	659.6	149.8	74.2	57.1	42.6	33.9	29.0	25.8	23.8	23.8
42.5°	929.2	649.5	120.9	67.2	49.6	36.8	29.6	24.9	21.4	19.4	19.7
45°	999.9	660.2	101.1	60.9	42.6	31.9	25.5	20.6	17.4	15.9	15.7
47.5°	1117.3	700.5	87.5	54.2	36.5	27.2	21.4	17.1	13.9	12.8	12.5
50°	1322.4	783.7	77.4	47.5	31.0	23.2	17.7	13.6	11.0	9.9	9.9
52.5°	1604.7	965.1	70.1	40.0	26.1	19.7	14.5	11.0	8.7	7.8	7.5
55°	1899.8	1156.4	66.4	33.6	21.7	16.2	11.6	8.7	6.7	5.8	5.5
57.5°	2183.5	1306.5	62.0	27.2	17.4	12.5	9.0	6.7	4.6	4.1	3.8
60°	2455.6	1427.9	52.7	21.7	13.6	9.0	6.7	4.6	3.2	2.6	2.6
62.5°	2699.1	1498.7	41.4	17.4	10.4	6.4	4.3	3.5	2.3	1.7	1.7
65°	2727.5	1406.8	31.3	13.3	7.5	4.1	2.6	2.6	1.7	1.2	1.2
66°	2670.4	1328.8	27.5	12.2	6.7	3.5	2.3	2.0	1.4	0.9	0.9
67.5°	2542.9	1195.8	23.8	10.4	5.5	2.6	1.7	1.7	1.2	0.6	0.6
70°	2197.1	976.7	18.8	7.8	4.1	2.0	1.2	1.2	0.9	0.6	0.6
72.5°	1674.6	729.2	15.4	5.8	2.9	1.4	0.9	0.9	0.9	0.6	0.6
75°	1010.0	392.7	11.9	4.3	2.6	1.2	0.6	0.9	1.2	0.9	0.6
77.5°	372.1	133.6	9.3	3.5	2.0	1.2	0.6	0.6	1.2	0.9	0.9
80°	91.3	34.8	6.7	2.9	2.0	1.2	0.6	0.6	1.2	1.2	1.2
82.5°	42.3	14.8	4.6	2.6	2.0	1.2	0.6	0.6	0.9	1.2	1.2
85°	24.3	7.0	3.8	2.9	2.0	1.2	0.6	0.6	0.9	1.2	1.2
87.5°	9.9	3.5	3.5	2.9	2.3	1.4	0.6	0.6	0.6	0.9	0.9
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)