

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: P450430

Luminaire Tested: **GALN-SA1B-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3983 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

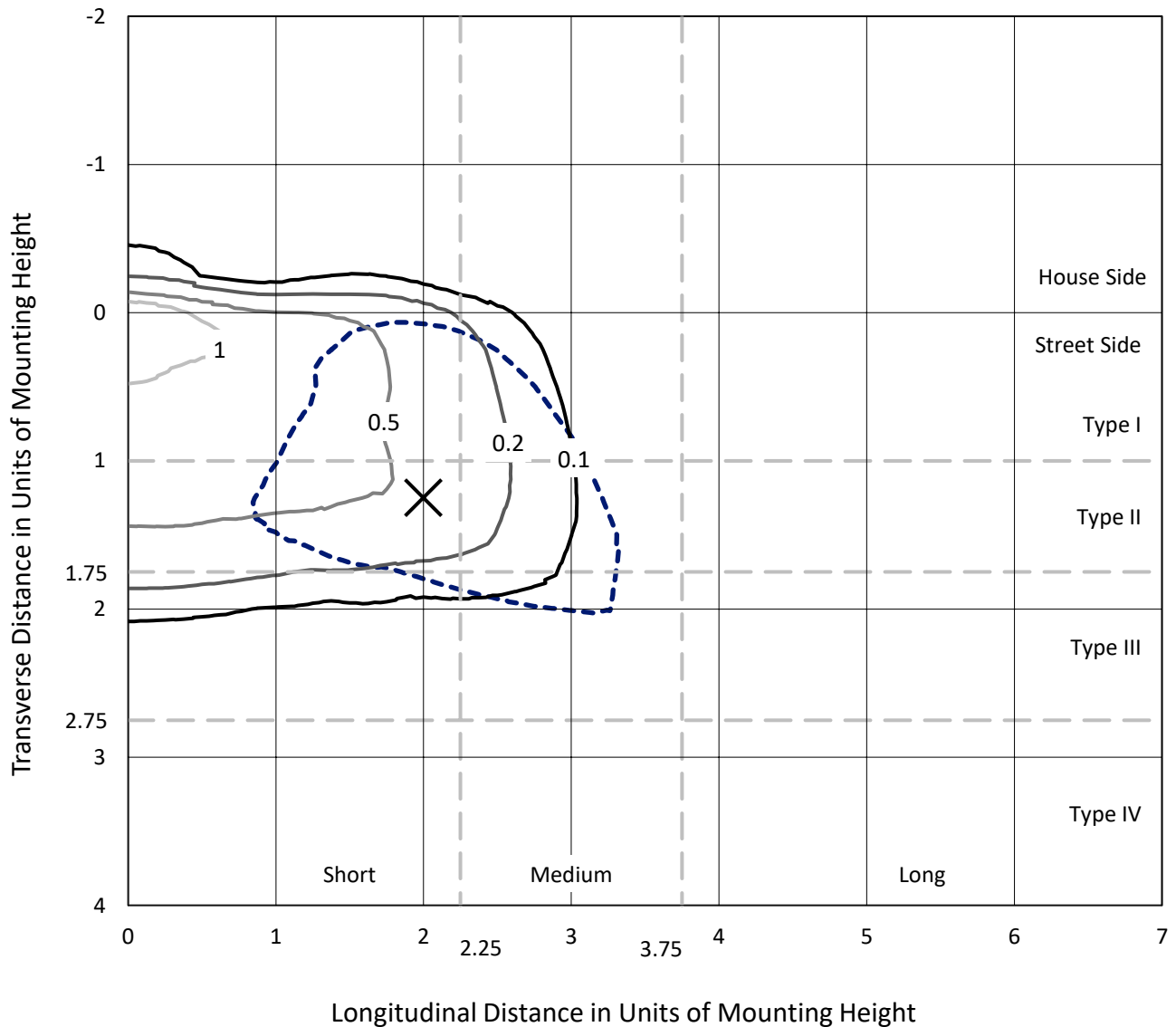
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

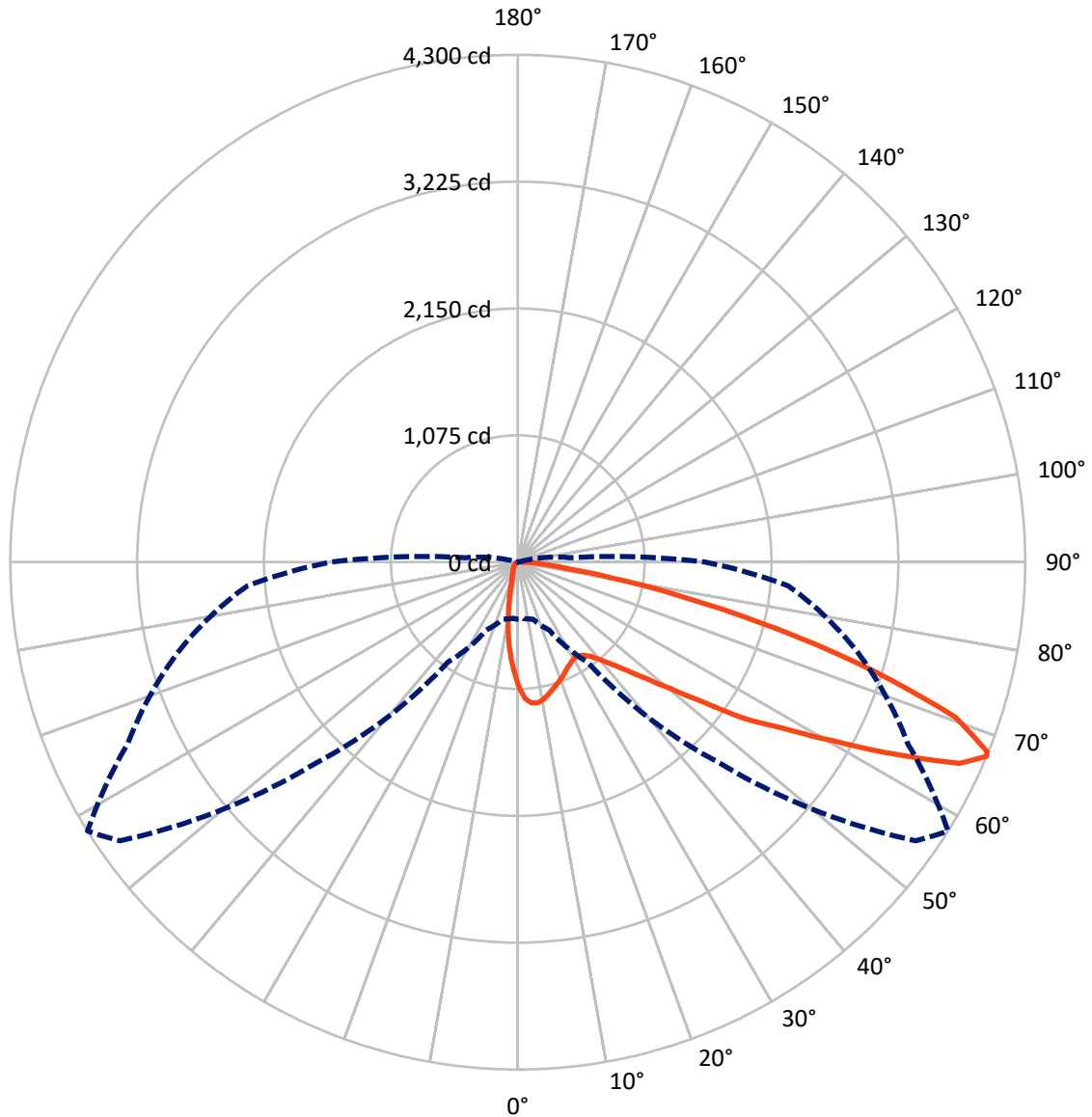
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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 CATALOG NUMBER: GALN-SA1B-727-U-SL3-HSS

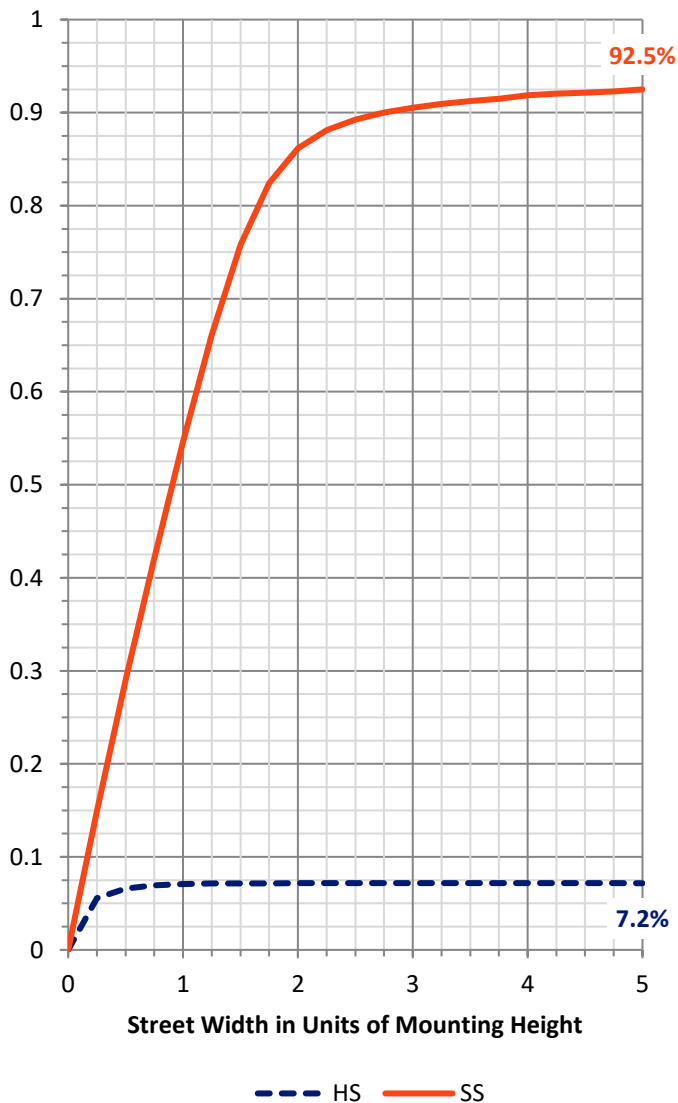
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	287.4	0.0	287.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	3695.6	0.0	3695.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3983.0	0.0	3983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	2.2
10°-20°	185.0	4.6
20°-30°	250.8	6.3
30°-40°	347.8	8.7
40°-50°	554.7	13.9
50°-60°	958.8	24.1
60°-70°	1095.2	27.5
70°-80°	456.6	11.5
80°-90°	48.4	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°	3983.0	100.0
0°-180°	3983.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450430

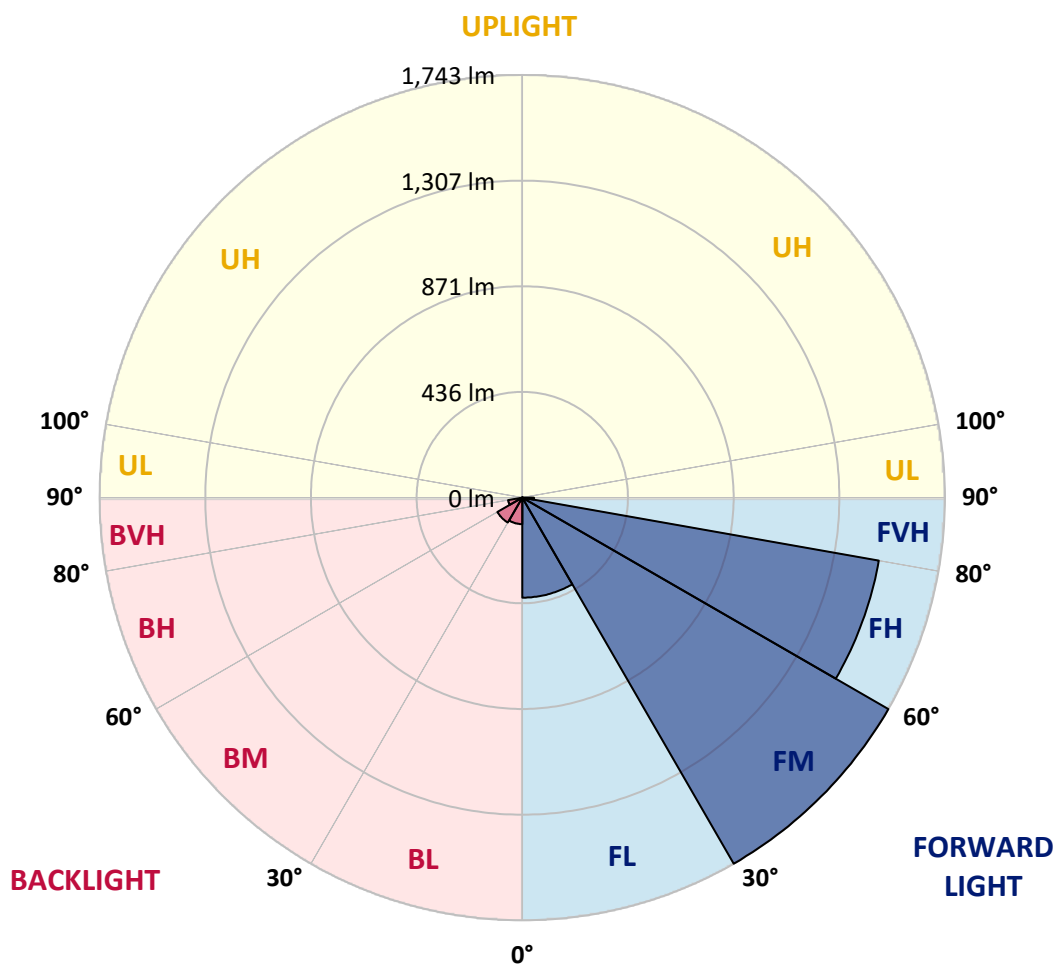
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.3	10.4			
FM	(30°-60°)	1742.7	43.8			
FH	(60°-80°)	1492.4	37.5			G1/1800
FVH	(80°-90°)	48.1	1.2			G1/100
BL	(0°-30°)	109.1	2.7	B0/110		
BM	(30°-60°)	118.5	3.0	B0/220		
BH	(60°-80°)	59.4	1.5	B0/110		G0/110
BVH	(80°-90°)	0.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1225.4	1227.3	1220.3	1214.8	1200.4	1184.9	1164.5	1153.5	1134.9	1102.7	1067.0
5°	1254.1	1256.5	1255.5	1254.1	1248.6	1233.7	1207.6	1198.0	1170.6	1118.1	1053.7
7.5°	1190.3	1199.1	1200.1	1210.5	1220.3	1221.7	1211.8	1204.6	1179.4	1117.9	1030.0
10°	1105.6	1111.5	1120.0	1132.0	1155.7	1175.4	1184.9	1183.9	1169.2	1109.6	1002.4
12.5°	1020.2	1023.4	1036.4	1056.9	1085.9	1119.5	1145.0	1150.1	1150.3	1099.8	979.2
15°	946.7	945.4	955.5	979.2	1019.9	1062.0	1107.8	1115.7	1128.5	1090.2	957.6
17.5°	883.9	890.8	892.4	918.5	956.0	1010.6	1068.9	1083.0	1108.6	1081.9	939.8
20°	845.1	848.8	852.2	866.9	900.7	958.2	1032.4	1051.9	1089.9	1074.5	919.8
22.5°	833.6	836.0	833.1	837.6	861.6	912.7	992.8	1018.6	1072.1	1067.6	903.6
25°	842.4	844.8	837.9	832.5	840.8	875.7	954.4	985.9	1057.7	1066.2	891.4
27.5°	863.7	868.2	858.6	849.1	844.3	855.7	924.4	960.8	1047.9	1072.6	885.8
30°	897.0	899.6	892.4	880.7	869.8	858.4	908.7	943.5	1045.2	1087.5	885.2
32.5°	933.2	938.7	934.8	927.0	912.9	885.8	913.2	944.1	1051.6	1109.1	891.9
35°	977.9	984.3	988.0	986.4	968.3	934.5	941.9	968.0	1068.6	1148.7	910.0
37.5°	1021.8	1027.4	1048.4	1055.6	1039.6	1007.7	997.8	1015.1	1106.2	1200.6	942.7
40°	1072.1	1079.5	1109.1	1136.5	1128.8	1095.2	1077.1	1091.5	1163.7	1278.9	1004.8
42.5°	1120.3	1133.6	1178.6	1227.0	1234.2	1196.7	1184.7	1189.5	1248.8	1391.5	1091.3
45°	1188.7	1201.2	1259.2	1324.9	1358.7	1329.5	1317.2	1316.4	1365.7	1549.8	1231.5
47.5°	1287.4	1298.6	1367.0	1431.9	1492.1	1496.1	1472.9	1480.9	1512.6	1735.1	1403.5
50°	1408.5	1434.9	1479.8	1547.5	1627.8	1692.8	1700.0	1689.3	1716.5	1949.6	1610.0
52.5°	1584.5	1594.6	1635.8	1691.4	1785.7	1895.9	1981.3	1966.7	1958.1	2154.0	1818.7
55°	1715.7	1729.2	1793.4	1869.8	2007.9	2153.2	2338.5	2343.5	2236.0	2350.5	2022.8
57.5°	1676.0	1696.8	1793.9	1947.5	2251.2	2516.8	2654.7	2658.1	2493.1	2541.3	2253.3
60°	1472.4	1482.2	1621.4	1826.4	2271.9	2910.7	3103.2	3075.2	2754.8	2754.8	2456.9
62.5°	1044.1	1059.6	1172.4	1474.0	2051.8	3047.5	3640.3	3582.5	3115.1	2958.9	2578.3
65°	667.3	652.4	727.1	930.5	1528.6	2845.5	4107.9	4111.4	3454.2	3040.6	2512.0
67°	483.3	477.5	499.1	636.1	1036.4	2392.0	4117.8	4300.1	3649.1	2989.0	2300.2
67.5°	442.1	446.6	462.3	573.8	941.7	2176.7	4073.0	4288.9	3693.0	2957.8	2223.5
70°	335.1	327.4	344.4	405.9	564.5	1373.1	3503.7	3933.6	3638.4	2648.8	1776.6
72.5°	246.5	245.7	269.4	331.9	434.6	731.4	2630.2	3154.0	2972.5	2017.0	1118.7
75°	166.4	173.8	211.6	277.3	393.9	474.3	1793.1	2288.2	2063.5	1145.3	457.3
77.5°	94.8	95.3	136.3	222.8	353.7	381.7	1062.5	1457.8	1092.3	380.9	135.7
80°	41.0	45.0	67.6	161.8	293.3	338.0	609.2	801.1	441.8	80.6	43.9
82.5°	15.2	17.8	29.8	99.5	214.0	278.4	368.1	382.5	149.8	28.5	27.4
85°	0.0	0.5	10.9	46.6	111.5	124.3	245.9	226.8	66.3	13.6	17.8
87.5°	0.0	0.0	0.0	4.8	14.6	46.3	76.4	85.2	16.0	4.8	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450430  
 CATALOG NUMBER: GALN-SA1B-727-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1047.9	1030.6	987.2	943.8	911.6	884.7	844.3	822.2	810.5	793.2	794.2
5°	1021.5	986.4	910.0	831.0	767.1	704.8	630.3	600.2	574.9	560.5	551.0
7.5°	982.4	930.5	817.4	712.0	613.8	504.9	423.2	368.6	331.9	318.3	305.3
10°	939.5	870.6	723.4	577.3	441.0	328.7	259.5	209.5	191.6	175.1	176.7
12.5°	899.9	816.0	637.2	455.7	309.0	208.9	162.9	142.4	136.5	134.7	134.7
15°	867.4	763.9	544.6	342.5	211.9	150.1	130.4	124.8	122.7	122.2	122.2
17.5°	832.8	714.4	461.0	253.1	154.1	125.6	119.0	115.2	114.4	113.9	113.9
20°	801.9	664.6	381.7	188.4	124.6	113.1	108.9	106.5	105.7	105.1	105.4
22.5°	772.7	620.4	307.1	142.4	109.7	103.0	98.7	96.3	94.8	93.4	93.7
25°	746.6	577.8	247.0	116.6	98.7	92.9	88.6	85.2	81.7	80.1	79.8
27.5°	728.2	540.6	192.4	99.8	88.9	82.5	77.2	72.9	68.4	66.0	65.5
30°	713.0	502.8	152.2	88.1	79.0	72.9	66.3	60.2	55.4	53.0	51.9
32.5°	703.2	466.8	120.0	78.5	70.8	63.3	55.9	49.8	44.4	42.1	41.5
35°	701.6	436.8	98.2	70.5	63.3	55.4	47.6	41.0	36.5	34.1	33.5
37.5°	713.0	413.6	82.2	64.1	57.2	48.4	39.9	33.8	29.8	27.9	27.7
40°	743.7	399.0	71.3	58.8	51.6	42.1	34.1	28.7	24.8	22.9	22.9
42.5°	801.9	399.5	64.1	53.8	46.0	35.9	29.0	24.0	20.5	18.9	18.4
45°	893.0	417.6	58.0	48.7	40.7	31.1	24.8	19.7	16.2	14.9	14.9
47.5°	1014.9	453.5	52.7	43.7	35.9	26.6	21.0	16.0	13.0	11.7	11.7
50°	1174.3	511.3	48.2	39.4	31.9	22.9	17.0	13.0	10.1	9.0	8.8
52.5°	1340.9	582.6	42.9	35.7	27.4	19.4	13.8	10.1	7.7	6.9	6.7
55°	1524.8	652.4	37.8	31.9	22.4	16.2	10.9	8.0	5.6	4.8	4.8
57.5°	1710.3	720.8	31.7	26.6	17.6	12.0	8.5	5.9	3.7	2.9	2.9
60°	1867.4	742.9	26.9	21.6	13.3	8.5	6.1	3.7	2.1	1.3	1.3
62.5°	1888.9	668.3	22.6	16.5	9.6	5.9	3.2	2.1	0.8	0.5	0.5
65°	1771.8	543.0	18.9	12.5	6.4	2.9	1.3	0.8	0.3	0.0	0.0
67°	1587.6	440.2	15.4	9.3	4.5	1.9	0.8	0.3	0.0	0.0	0.0
67.5°	1540.5	419.7	14.9	8.8	4.0	1.6	0.5	0.3	0.0	0.0	0.0
70°	1208.9	314.3	10.6	5.3	2.4	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	751.4	177.8	7.7	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0
75°	284.0	62.3	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	88.4	23.7	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.8	9.0	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	3.7	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.4	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.5	0.3	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)