

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: P527228

Luminaire Tested: **GALN-SA2B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8410 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

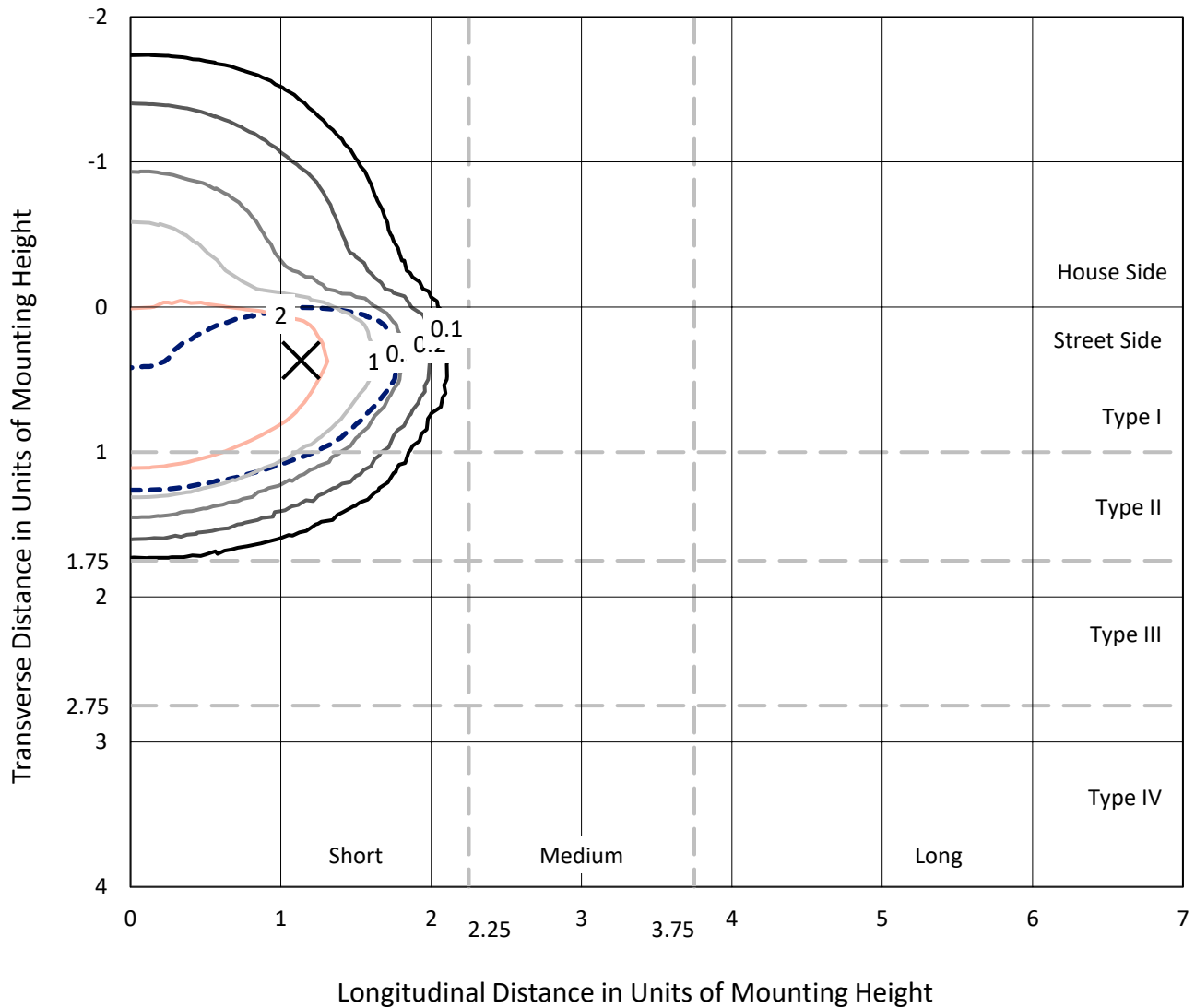
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527228
 CATALOG NUMBER: GALN-SA2B-727-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

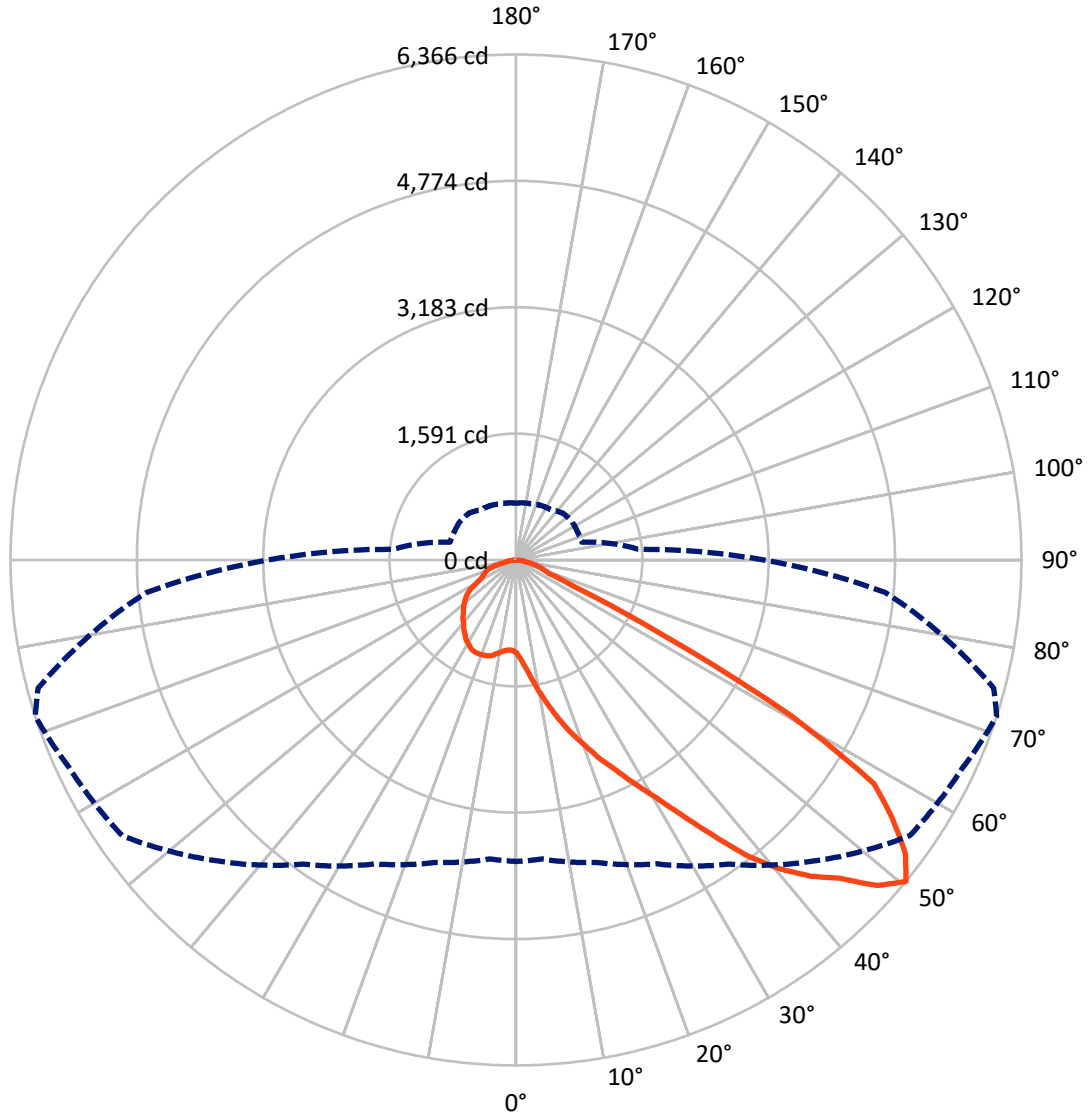
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

REPORT NUMBER: P527228
CATALOG NUMBER: GALN-SA2B-727-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1926.8	0.0	1926.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6483.2	0.0	6483.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	8410.0	0.0	8410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.6
10°-20°	514.8	6.1
20°-30°	998.2	11.9
30°-40°	1653.6	19.7
40°-50°	2313.8	27.5
50°-60°	1952.0	23.2
60°-70°	595.0	7.1
70°-80°	208.7	2.5
80°-90°	36.3	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°	8410.0	100.0
0°-180°	8410.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527228

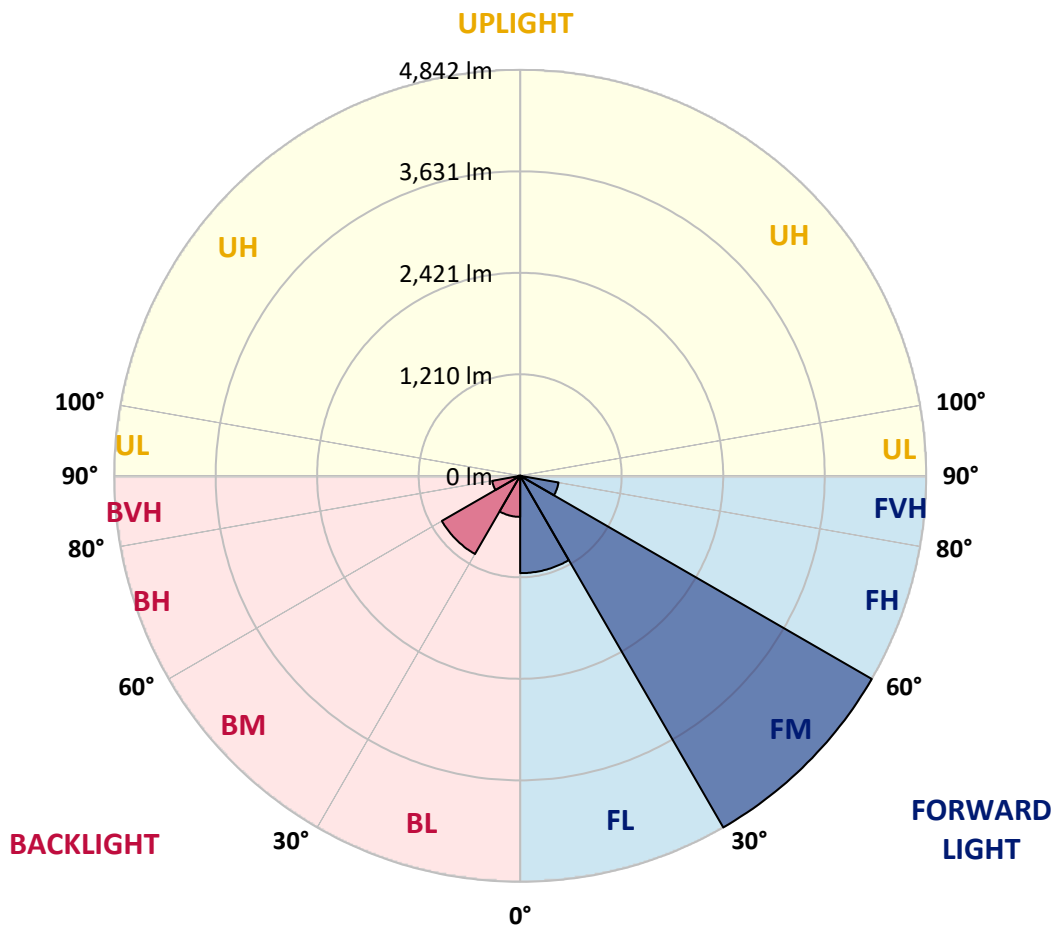
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1160.9	13.8			
FM (30°-60°)	4841.9	57.6			
FH (60°-80°)	464.2	5.5			G0/660
FVH (80°-90°)	16.3	0.2			G1/100
BL (0°-30°)	489.8	5.8	B1/500		
BM (30°-60°)	1077.5	12.8	B2/2500		
BH (60°-80°)	339.5	4.0	B1/500		G1/500
BVH (80°-90°)	20.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P527228

CATALOG NUMBER: GALN-SA2B-727-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1505.8	1496.5	1468.4	1459.0	1425.7	1365.3	1344.5	1283.1	1257.1	1233.2	1205.1
5°	1904.4	1860.7	1857.6	1804.5	1727.5	1682.7	1549.5	1460.0	1377.8	1336.2	1259.2
7.5°	2158.3	2159.4	2159.4	2115.7	2054.3	1940.8	1821.2	1659.9	1536.0	1474.6	1343.5
10°	2399.8	2379.0	2367.5	2363.3	2321.7	2211.4	2083.4	1883.6	1714.0	1642.2	1407.0
12.5°	2570.4	2552.7	2578.8	2565.2	2535.1	2463.2	2342.5	2114.6	1902.3	1805.5	1509.0
15°	2651.6	2664.1	2684.9	2722.4	2708.8	2681.8	2548.6	2351.9	2105.3	1996.0	1599.5
17.5°	2776.5	2742.1	2767.1	2813.9	2851.4	2838.9	2763.0	2523.6	2306.1	2171.9	1721.3
20°	2863.9	2844.1	2856.6	2910.7	2938.8	3009.6	2970.0	2748.4	2498.6	2357.1	1864.9
22.5°	3113.7	3084.5	3043.9	3052.3	3062.7	3112.6	3122.0	2995.0	2722.4	2572.5	2001.2
25°	3421.7	3394.6	3346.8	3297.9	3267.7	3258.3	3290.6	3188.6	2936.7	2781.7	2147.9
27.5°	3760.9	3715.2	3685.0	3584.0	3502.9	3490.4	3474.8	3419.6	3190.7	3023.1	2313.4
30°	4090.8	4054.4	4013.8	3852.5	3768.2	3754.7	3677.7	3693.3	3466.4	3280.2	2500.7
32.5°	4340.6	4343.7	4251.1	4129.3	4050.3	3978.4	3950.3	3995.1	3820.3	3670.4	2709.9
35°	4542.5	4551.9	4463.4	4353.1	4267.8	4317.7	4305.2	4326.0	4242.8	4059.6	2953.4
37.5°	4739.2	4692.3	4597.6	4544.6	4499.8	4582.0	4688.2	4705.9	4721.5	4506.1	3236.5
40°	4771.4	4775.6	4720.4	4757.9	4701.7	4825.5	5072.2	5049.3	5112.8	4924.4	3543.5
42.5°	4725.6	4735.0	4756.9	4809.9	4945.2	5094.0	5460.3	5366.7	5443.7	5276.2	3842.1
45°	4650.7	4612.2	4639.3	4841.2	5075.3	5406.2	5815.2	5742.4	5717.4	5576.9	4198.0
47.5°	4292.7	4332.3	4416.6	4665.3	5017.0	5460.3	6067.1	6050.4	6125.3	6026.5	4521.7
50°	3796.3	3780.7	3943.1	4223.0	4676.7	5354.2	6053.5	6204.4	6365.7	6228.4	4666.3
52.5°	2843.1	2926.3	3065.8	3413.4	4060.7	4775.6	5758.0	6009.8	6140.9	6111.8	4549.8
55°	1797.2	1822.2	1906.5	2319.6	2902.4	3832.8	4935.9	5519.7	5753.8	5863.1	4442.6
57.5°	873.1	826.3	929.3	1261.3	1676.5	2577.7	3806.7	4807.9	5316.7	5514.5	4209.5
60°	455.8	473.5	514.1	632.7	866.9	1338.3	2372.7	3204.2	3981.6	4285.4	3190.7
62.5°	377.8	384.0	411.1	470.4	576.5	770.1	1211.3	1562.0	2030.3	2304.0	1814.9
65°	320.5	323.6	352.8	392.3	460.0	542.2	623.4	652.5	789.9	810.7	645.2
67.5°	267.4	270.6	301.8	339.3	383.0	404.8	425.6	423.5	439.2	432.9	431.9
70°	206.1	209.2	241.4	281.0	302.8	290.3	354.9	369.4	375.7	380.9	389.2
72.5°	148.8	155.1	180.0	208.1	196.7	225.8	292.4	314.3	322.6	325.7	336.1
75°	108.2	110.3	116.6	108.2	124.9	157.1	206.1	233.1	243.5	246.6	262.2
77.5°	47.9	48.9	50.0	62.4	80.1	97.8	122.8	144.7	159.2	163.4	167.5
80°	25.0	26.0	32.3	42.7	57.2	71.8	89.5	102.0	111.4	112.4	116.6
82.5°	15.6	16.7	22.9	30.2	40.6	53.1	65.6	76.0	83.3	84.3	85.3
85°	7.3	9.4	13.5	18.7	27.1	34.3	35.4	30.2	32.3	33.3	31.2
87.5°	2.1	3.1	4.2	3.1	4.2	4.2	5.2	6.2	6.2	6.2	7.3
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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CATALOG NUMBER: GALN-SA2B-727-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1189.5	1180.1	1143.7	1130.2	1094.8	1101.0	1082.3	1081.2	1077.1	1076.0	1075.0
5°	1218.6	1189.5	1145.8	1112.5	1092.7	1090.6	1077.1	1077.1	1081.2	1084.4	1077.1
7.5°	1266.5	1233.2	1159.3	1128.1	1110.4	1107.3	1097.9	1090.6	1100.0	1096.9	1088.5
10°	1321.6	1263.4	1185.3	1158.3	1129.1	1121.8	1121.8	1125.0	1109.3	1114.5	1106.2
12.5°	1383.0	1305.0	1218.6	1187.4	1153.1	1148.9	1146.8	1123.9	1132.2	1128.1	1107.3
15°	1461.1	1352.9	1261.3	1208.2	1179.1	1160.3	1133.3	1129.1	1123.9	1113.5	1104.1
17.5°	1545.4	1404.9	1281.1	1214.5	1170.7	1157.2	1136.4	1114.5	1098.9	1101.0	1093.7
20°	1617.2	1452.8	1288.3	1220.7	1164.5	1138.5	1106.2	1092.7	1076.0	1075.0	1074.0
22.5°	1702.5	1517.3	1298.7	1204.0	1145.8	1118.7	1096.9	1072.9	1061.5	1046.9	1054.2
25°	1804.5	1542.3	1300.8	1194.7	1132.2	1084.4	1072.9	1046.9	1042.7	1021.9	1026.1
27.5°	1878.4	1555.8	1284.2	1165.5	1101.0	1064.6	1043.8	1025.1	1017.8	1002.2	998.0
30°	1977.3	1576.6	1248.8	1129.1	1069.8	1029.2	1016.7	1012.6	991.8	975.1	973.0
32.5°	2089.6	1590.1	1225.9	1091.7	1037.5	1006.3	1012.6	992.8	966.8	952.2	948.0
35°	2179.1	1595.3	1168.7	1049.0	1015.7	995.9	988.6	984.5	947.0	933.5	923.1
37.5°	2315.5	1583.9	1120.8	1018.8	991.8	984.5	978.2	950.1	907.5	887.7	873.1
40°	2474.7	1580.8	1059.4	976.1	968.9	977.2	958.4	914.7	855.4	833.6	823.2
42.5°	2627.7	1602.6	1020.9	953.2	943.9	947.0	921.0	855.4	826.3	813.8	797.1
45°	2883.7	1648.4	957.4	917.9	913.7	911.6	880.4	811.7	795.1	779.5	776.3
47.5°	3114.7	1618.2	916.8	881.4	885.6	874.2	807.6	785.7	767.0	751.4	746.2
50°	3128.2	1546.4	859.6	853.3	854.4	834.6	771.1	756.6	732.6	722.2	714.9
52.5°	3057.5	1428.8	806.5	808.6	811.7	779.5	726.4	716.0	696.2	681.6	677.5
55°	2858.7	1245.7	754.5	762.8	771.1	709.7	693.1	667.1	651.5	630.6	631.7
57.5°	2518.4	1003.2	681.6	695.2	712.9	645.2	632.7	600.5	577.6	560.9	558.8
60°	1688.0	713.9	572.4	577.6	617.1	590.1	589.0	556.8	525.5	511.0	502.6
62.5°	995.9	545.3	494.3	489.1	488.1	503.7	529.7	518.2	477.7	449.6	457.9
65°	521.4	471.4	460.0	442.3	431.9	427.7	447.5	452.7	425.6	395.5	393.4
67.5°	438.1	438.1	428.8	422.5	407.9	390.2	377.8	361.1	356.9	348.6	338.2
70°	398.6	409.0	405.9	391.3	378.8	359.0	326.8	299.7	273.7	264.3	270.6
72.5°	347.6	358.0	358.0	350.7	334.1	303.9	272.7	241.4	219.6	202.9	200.8
75°	267.4	272.7	285.1	276.8	255.0	236.2	204.0	171.7	150.9	135.3	132.2
77.5°	170.7	179.0	179.0	178.0	162.3	144.7	123.8	100.9	85.3	73.9	70.8
80°	113.4	118.6	122.8	118.6	108.2	94.7	79.1	63.5	52.0	42.7	40.6
82.5°	83.3	89.5	92.6	88.5	78.0	67.6	56.2	44.7	33.3	26.0	23.9
85°	32.3	33.3	37.5	44.7	43.7	42.7	34.3	25.0	18.7	13.5	12.5
87.5°	8.3	7.3	8.3	8.3	7.3	6.2	6.2	6.2	6.2	3.1	4.2
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)