

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: P527618

Luminaire Tested: **GALN-SA2C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527618
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-SA2C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 9133 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

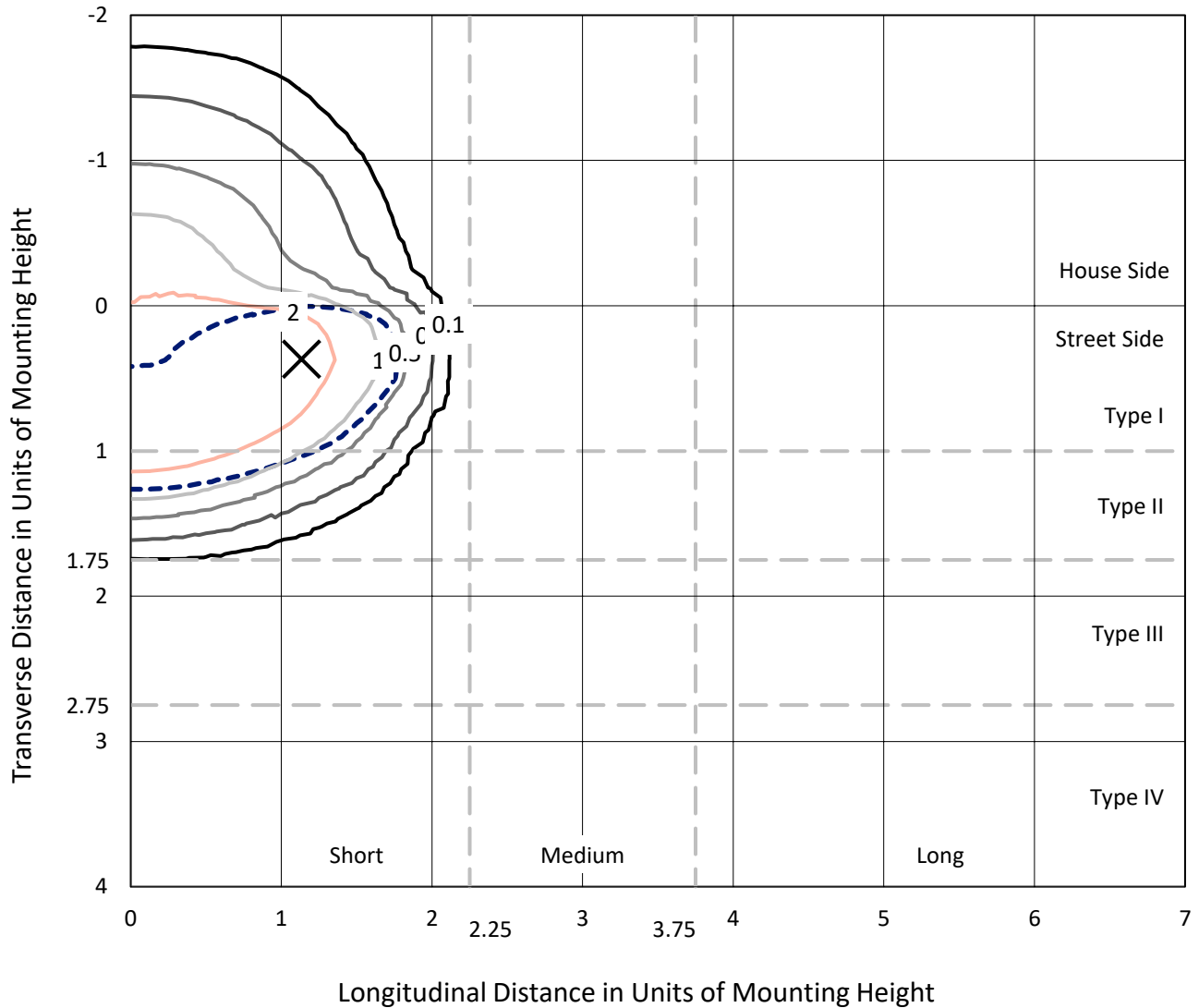
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

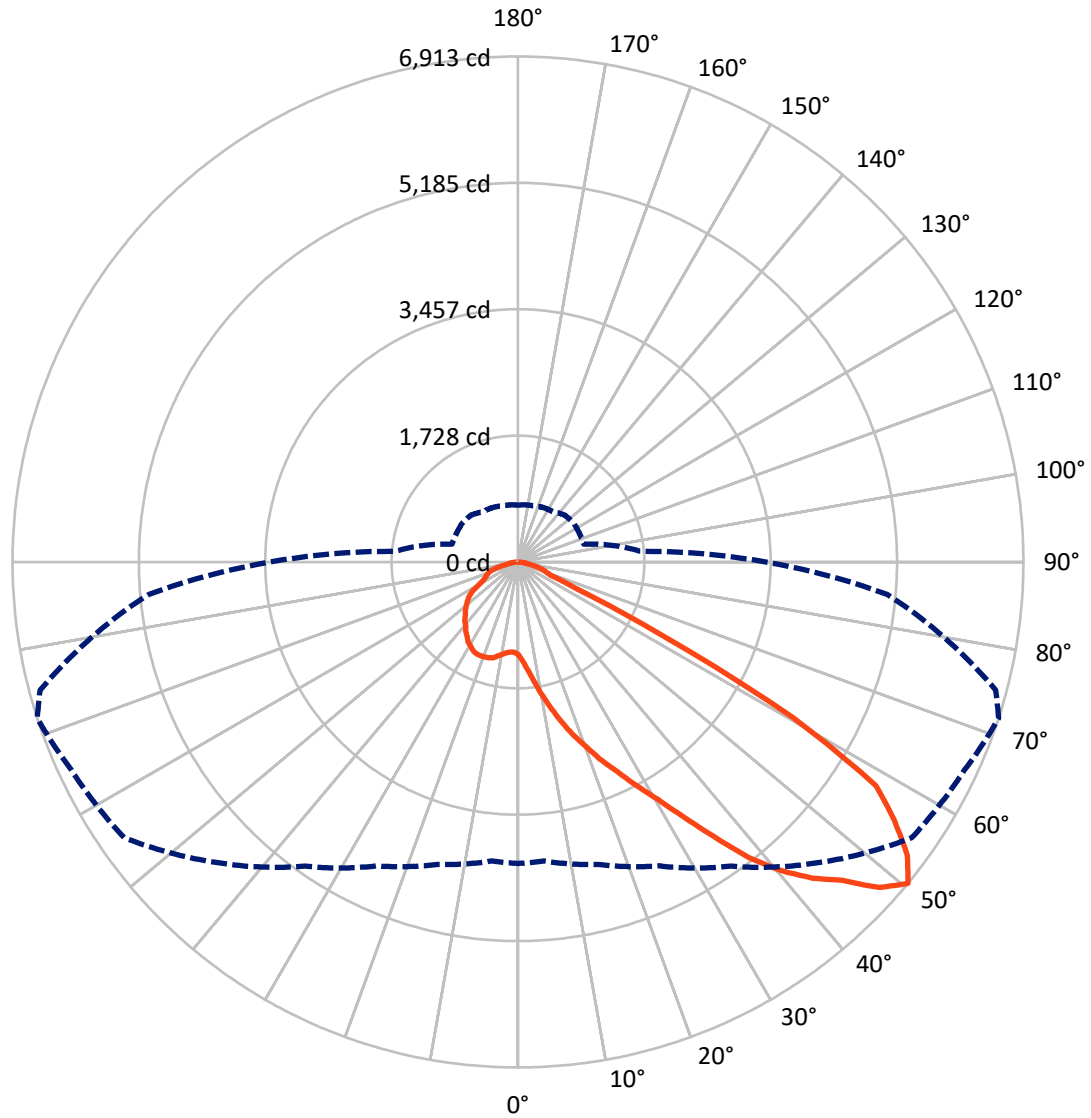
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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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	2092.4	0.0	2092.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7040.6	0.0	7040.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	9133.0	0.0	9133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.6
10°-20°	559.1	6.1
20°-30°	1084.0	11.9
30°-40°	1795.8	19.7
40°-50°	2512.7	27.5
50°-60°	2119.8	23.2
60°-70°	646.1	7.1
70°-80°	226.7	2.5
80°-90°	39.4	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°	9133.0	100.0
0°-180°	9133.0	100.0

Coefficient of Utilization

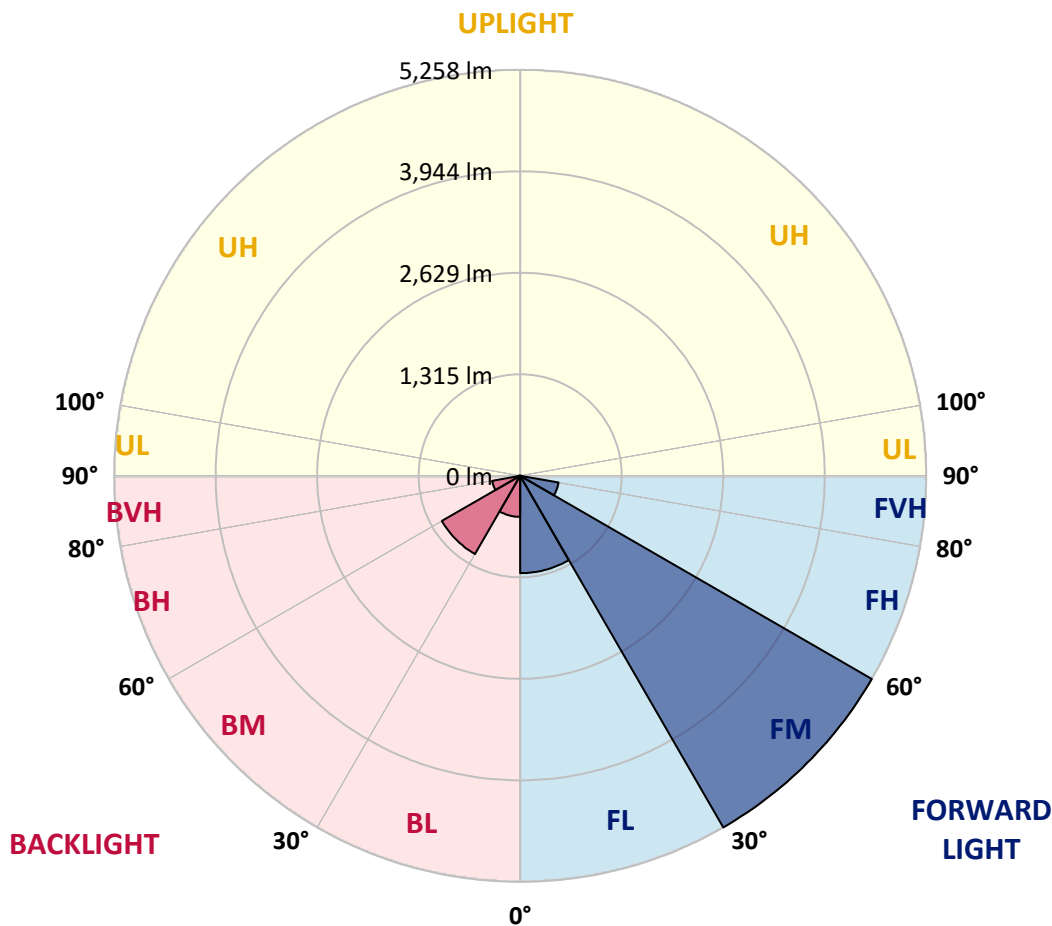


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.7	13.8			
FM (30°-60°)	5258.1	57.6			
FH (60°-80°)	504.1	5.5			G0/660
FVH (80°-90°)	17.7	0.2			G1/100
BL (0°-30°)	531.9	5.8	B2/1000		
BM (30°-60°)	1170.1	12.8	B2/2500		
BH (60°-80°)	368.6	4.0	B1/500		G1/500
BVH (80°-90°)	21.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4
2.5°	1635.3	1625.1	1594.6	1584.4	1548.3	1482.7	1460.1	1393.4	1365.2	1339.2	1308.7
5°	2068.1	2020.7	2017.3	1959.6	1876.0	1827.4	1682.8	1585.6	1496.3	1451.1	1367.5
7.5°	2343.9	2345.0	2345.0	2297.5	2230.9	2107.7	1977.7	1802.6	1668.1	1601.4	1459.0
10°	2606.1	2583.5	2571.0	2566.5	2521.3	2401.5	2262.5	2045.5	1861.3	1783.3	1527.9
12.5°	2791.4	2772.2	2800.5	2785.8	2753.0	2675.0	2543.9	2296.4	2065.9	1960.8	1638.7
15°	2879.6	2893.1	2915.7	2956.4	2941.7	2912.3	2767.7	2554.1	2286.2	2167.6	1737.0
17.5°	3015.2	2977.9	3005.0	3055.9	3096.5	3083.0	3000.5	2740.6	2504.4	2358.6	1869.2
20°	3110.1	3088.6	3102.2	3161.0	3191.5	3268.3	3225.4	2984.7	2713.4	2559.7	2025.2
22.5°	3381.3	3349.7	3305.6	3314.7	3326.0	3380.2	3390.4	3252.5	2956.4	2793.7	2173.2
25°	3715.9	3686.5	3634.5	3581.4	3548.6	3538.4	3573.5	3462.7	3189.2	3020.8	2332.6
27.5°	4084.3	4034.5	4001.8	3892.2	3804.0	3790.4	3773.5	3713.6	3465.0	3283.0	2512.3
30°	4442.5	4403.0	4358.9	4183.7	4092.2	4077.5	3993.9	4010.8	3764.4	3562.2	2715.7
32.5°	4713.8	4717.1	4616.6	4484.3	4398.4	4320.5	4290.0	4338.6	4148.7	3986.0	2942.8
35°	4933.0	4943.2	4847.1	4727.3	4634.6	4688.9	4675.3	4697.9	4607.5	4408.6	3207.3
37.5°	5146.6	5095.7	4992.9	4935.3	4886.7	4975.9	5091.2	5110.4	5127.4	4893.4	3514.7
40°	5181.6	5186.1	5126.3	5166.9	5105.9	5240.4	5508.2	5483.4	5552.3	5347.8	3848.1
42.5°	5131.9	5142.1	5165.8	5223.4	5370.4	5532.0	5929.8	5828.1	5911.7	5729.7	4172.4
45°	5050.5	5008.7	5038.1	5257.3	5511.6	5871.0	6315.1	6236.0	6208.9	6056.3	4558.9
47.5°	4661.8	4704.7	4796.3	5066.4	5448.3	5929.8	6588.6	6570.6	6651.9	6544.6	4910.4
50°	4122.7	4105.7	4282.0	4586.1	5078.8	5814.5	6573.9	6737.8	6913.0	6763.8	5067.5
52.5°	3087.5	3177.9	3329.4	3706.8	4409.8	5186.1	6253.0	6526.5	6668.9	6637.2	4940.9
55°	1951.7	1978.9	2070.4	2519.1	3151.9	4162.3	5360.2	5994.2	6248.5	6367.1	4824.5
57.5°	948.2	897.3	1009.2	1369.7	1820.6	2799.3	4134.0	5221.2	5773.8	5988.5	4571.4
60°	495.0	514.2	558.3	687.1	941.4	1453.3	2576.7	3479.7	4323.9	4653.9	3465.0
62.5°	410.2	417.0	446.4	510.8	626.1	836.3	1315.5	1696.3	2204.9	2502.1	1970.9
65°	348.1	351.5	383.1	426.1	499.5	588.8	676.9	708.6	857.8	880.4	700.7
67.5°	290.4	293.8	327.7	368.4	415.9	439.6	462.2	460.0	476.9	470.1	469.0
70°	223.8	227.2	262.2	305.1	328.9	315.3	385.4	401.2	408.0	413.6	422.7
72.5°	161.6	168.4	195.5	226.0	213.6	245.2	317.6	341.3	350.3	353.7	365.0
75°	117.5	119.8	126.6	117.5	135.6	170.6	223.8	253.1	264.4	267.8	284.8
77.5°	52.0	53.1	54.2	67.8	87.0	106.2	133.4	157.1	172.9	177.4	182.0
80°	27.1	28.3	35.0	46.3	62.2	78.0	97.2	110.8	120.9	122.1	126.6
82.5°	17.0	18.1	24.9	32.8	44.1	57.6	71.2	82.5	90.4	91.5	92.7
85°	7.9	10.2	14.7	20.3	29.4	37.3	38.4	32.8	35.0	36.2	33.9
87.5°	2.3	3.4	4.5	3.4	4.5	4.5	5.7	6.8	6.8	6.8	7.9
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°	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4	1271.4
2.5°	1291.7	1281.6	1242.0	1227.3	1188.9	1195.7	1175.3	1174.2	1169.7	1168.6	1167.4
5°	1323.4	1291.7	1244.3	1208.1	1186.6	1184.4	1169.7	1169.7	1174.2	1177.6	1169.7
7.5°	1375.4	1339.2	1259.0	1225.1	1205.8	1202.5	1192.3	1184.4	1194.5	1191.2	1182.1
10°	1435.3	1372.0	1287.2	1257.8	1226.2	1218.3	1218.3	1221.7	1204.7	1210.4	1201.3
12.5°	1501.9	1417.2	1323.4	1289.5	1252.2	1247.7	1245.4	1220.5	1229.6	1225.1	1202.5
15°	1586.7	1469.2	1369.7	1312.1	1280.4	1260.1	1230.7	1226.2	1220.5	1209.2	1199.1
17.5°	1678.2	1525.7	1391.2	1318.9	1271.4	1256.7	1234.1	1210.4	1193.4	1195.7	1187.8
20°	1756.2	1577.7	1399.1	1325.6	1264.6	1236.4	1201.3	1186.6	1168.6	1167.4	1166.3
22.5°	1848.9	1647.7	1410.4	1307.6	1244.3	1214.9	1191.2	1165.2	1152.7	1136.9	1144.8
25°	1959.6	1674.8	1412.7	1297.4	1229.6	1177.6	1165.2	1136.9	1132.4	1109.8	1114.3
27.5°	2039.9	1689.5	1394.6	1265.7	1195.7	1156.1	1133.5	1113.2	1105.3	1088.3	1083.8
30°	2147.2	1712.1	1356.2	1226.2	1161.8	1117.7	1104.1	1099.6	1077.0	1058.9	1056.7
32.5°	2269.3	1726.8	1331.3	1185.5	1126.7	1092.8	1099.6	1078.1	1049.9	1034.1	1029.5
35°	2366.5	1732.5	1269.1	1139.2	1103.0	1081.5	1073.6	1069.1	1028.4	1013.7	1002.4
37.5°	2514.5	1720.1	1217.1	1106.4	1077.0	1069.1	1062.3	1031.8	985.5	964.0	948.2
40°	2687.4	1716.7	1150.5	1060.1	1052.1	1061.2	1040.8	993.4	929.0	905.2	893.9
42.5°	2853.6	1740.4	1108.7	1035.2	1025.0	1028.4	1000.2	929.0	897.3	883.8	865.7
45°	3131.6	1790.1	1039.7	996.8	992.3	990.0	956.1	881.5	863.4	846.5	843.1
47.5°	3382.5	1757.3	995.6	957.2	961.7	949.3	877.0	853.2	832.9	816.0	810.3
50°	3397.2	1679.4	933.5	926.7	927.8	906.4	837.4	821.6	795.6	784.3	776.4
52.5°	3320.3	1551.7	875.8	878.1	881.5	846.5	788.8	777.5	756.1	740.2	735.7
55°	3104.5	1352.8	819.3	828.4	837.4	770.7	752.7	724.4	707.5	684.9	686.0
57.5°	2734.9	1089.4	740.2	754.9	774.1	700.7	687.1	652.1	627.2	609.1	606.9
60°	1833.1	775.3	621.6	627.2	670.2	640.8	639.7	604.6	570.7	554.9	545.9
62.5°	1081.5	592.2	536.8	531.2	530.0	547.0	575.2	562.8	518.7	488.2	497.3
65°	566.2	511.9	499.5	480.3	469.0	464.5	486.0	491.6	462.2	429.4	427.2
67.5°	475.8	475.8	465.6	458.8	443.0	423.8	410.2	392.2	387.6	378.6	367.3
70°	432.8	444.1	440.7	424.9	411.4	389.9	354.9	325.5	297.2	287.1	293.8
72.5°	377.5	388.8	388.8	380.9	362.8	330.0	296.1	262.2	238.5	220.4	218.1
75°	290.4	296.1	309.7	300.6	276.9	256.5	221.5	186.5	163.9	146.9	143.5
77.5°	185.3	194.4	194.4	193.3	176.3	157.1	134.5	109.6	92.7	80.2	76.8
80°	123.2	128.8	133.4	128.8	117.5	102.8	85.9	68.9	56.5	46.3	44.1
82.5°	90.4	97.2	100.6	96.1	84.8	73.5	61.0	48.6	36.2	28.3	26.0
85°	35.0	36.2	40.7	48.6	47.5	46.3	37.3	27.1	20.3	14.7	13.6
87.5°	9.0	7.9	9.0	9.0	7.9	6.8	6.8	6.8	6.8	3.4	4.5
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)