

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: P522659

Luminaire Tested: **GALN-SA2B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9577 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

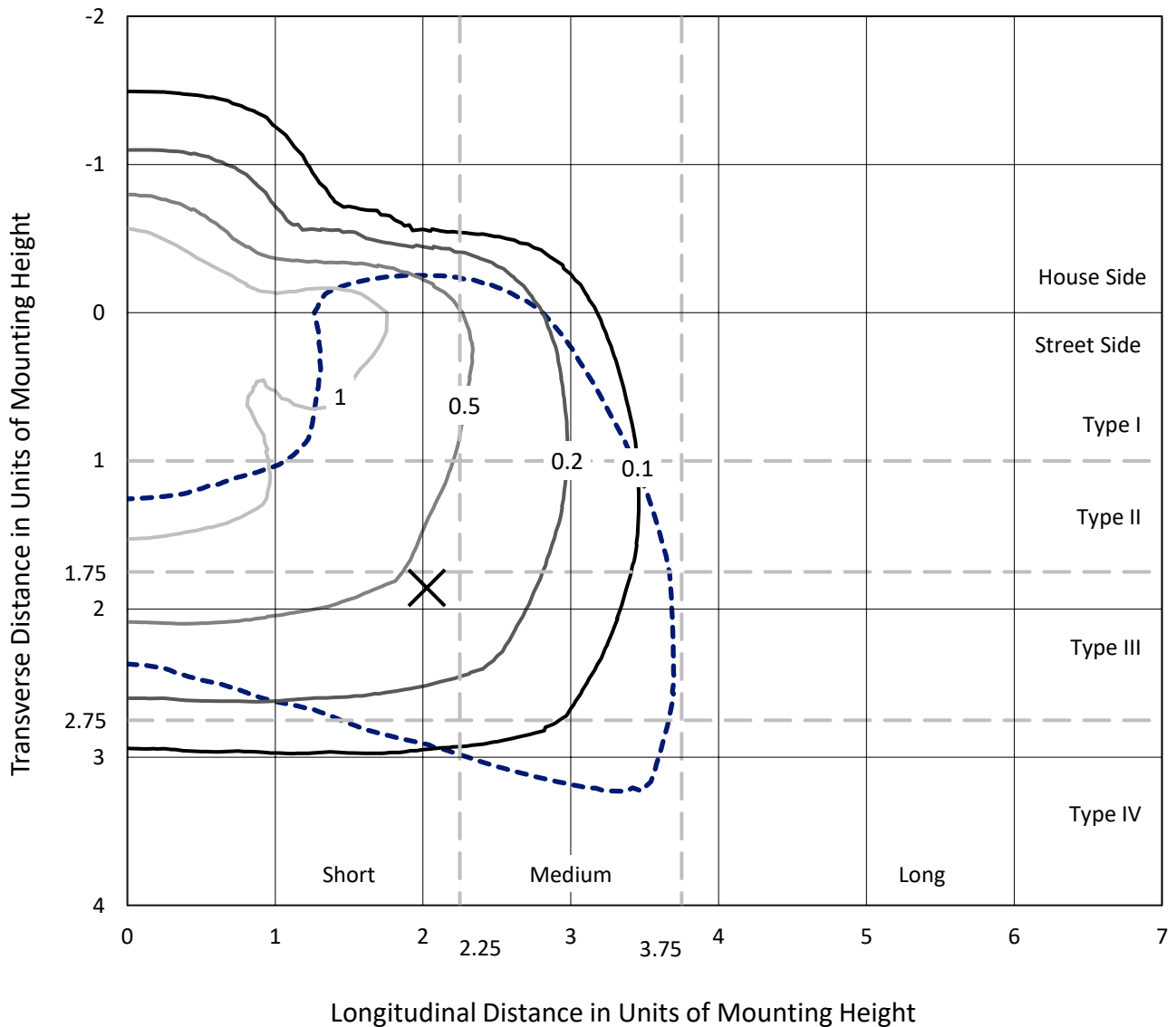
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

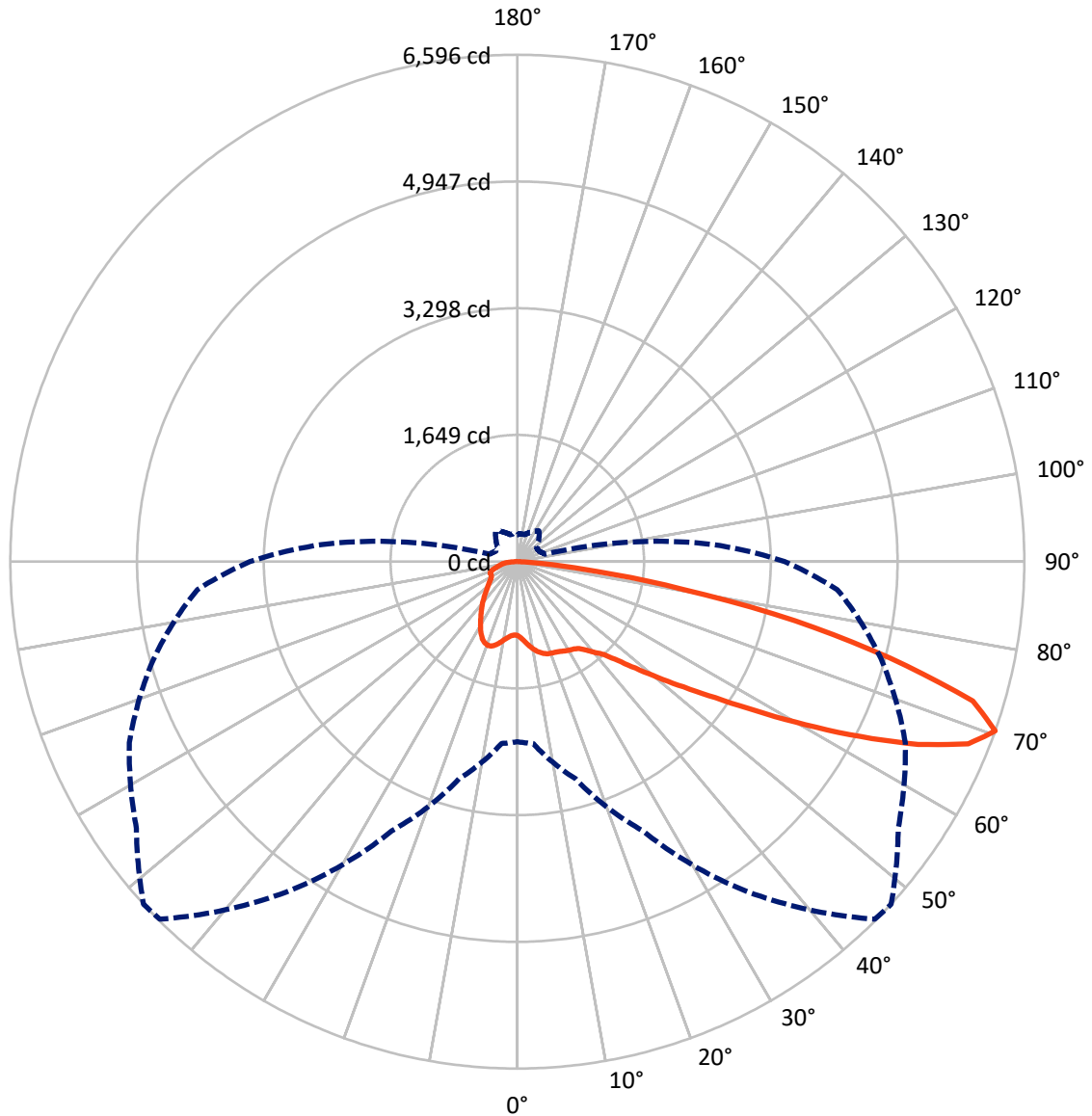
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2168.4	0.0	2168.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7408.6	0.0	7408.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	9577.0	0.0	9577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.0
10°-20°	331.3	3.5
20°-30°	551.0	5.8
30°-40°	780.9	8.2
40°-50°	1152.8	12.0
50°-60°	1996.6	20.8
60°-70°	2820.3	29.4
70°-80°	1621.3	16.9
80°-90°	223.7	2.3
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°	9577.0	100.0
0°-180°	9577.0	100.0

Coefficient of Utilization



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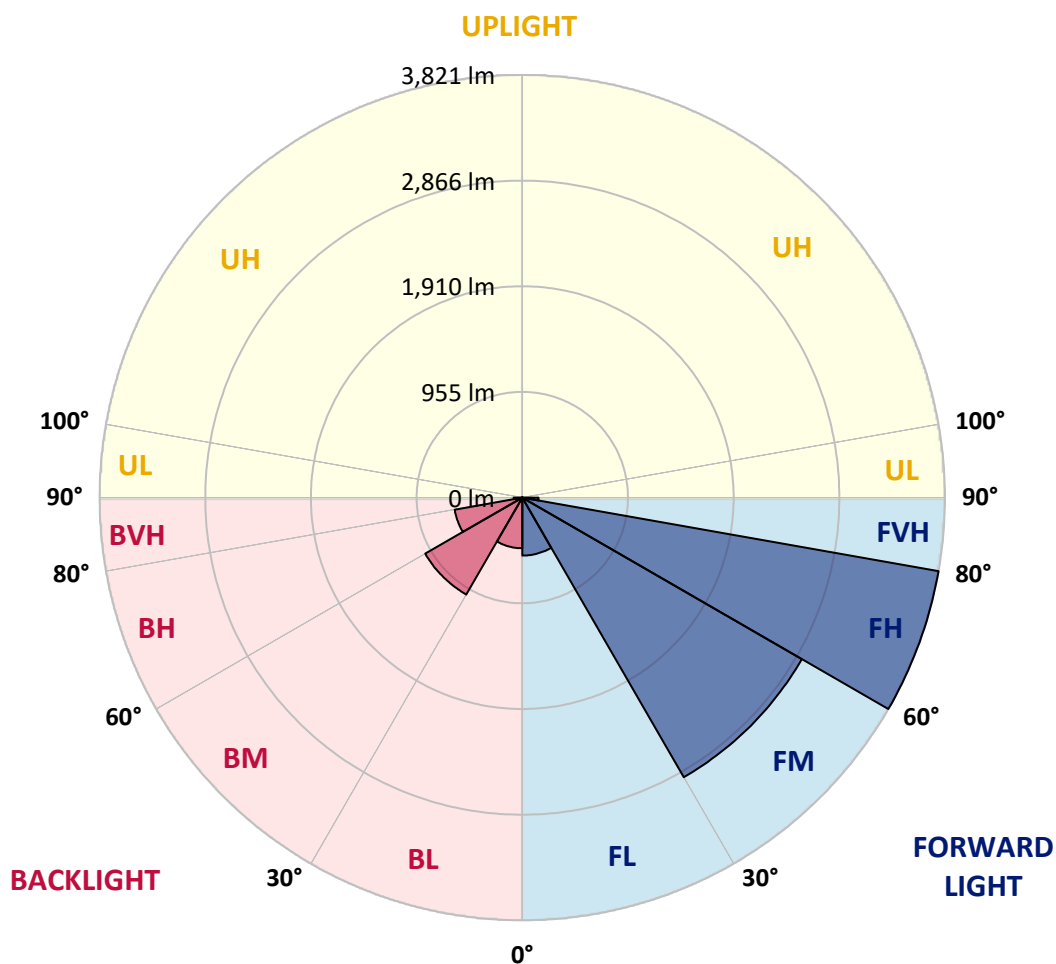
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.7	5.5			
FM	(30°-60°)	2917.9	30.5			
FH	(60°-80°)	3820.8	39.9			G2/5000
FVH	(80°-90°)	146.1	1.5			G2/225
BL	(0°-30°)	457.7	4.8	B1/500		
BM	(30°-60°)	1012.4	10.6	B2/2500		
BH	(60°-80°)	620.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	77.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
2.5°	1023.4	1019.8	1019.3	1011.6	1007.5	999.9	996.8	989.6	980.9	972.2	964.0
5°	1103.9	1103.9	1100.3	1089.5	1072.6	1055.2	1047.5	1033.7	1009.1	989.1	972.2
7.5°	1186.4	1187.4	1180.2	1164.4	1140.3	1112.1	1104.9	1084.4	1049.6	1020.4	995.2
10°	1257.6	1257.6	1247.9	1226.4	1196.1	1165.4	1158.2	1135.1	1096.2	1059.8	1027.0
12.5°	1312.0	1312.0	1299.1	1271.0	1238.2	1210.5	1202.3	1180.2	1143.9	1103.4	1061.9
15°	1347.3	1344.8	1330.4	1298.6	1266.9	1242.8	1237.1	1218.7	1185.4	1144.4	1097.7
17.5°	1348.9	1347.8	1334.0	1307.3	1279.7	1263.3	1259.7	1247.4	1221.2	1182.3	1133.1
20°	1319.1	1321.2	1312.0	1293.0	1279.7	1272.5	1271.0	1266.9	1248.4	1212.0	1162.8
22.5°	1287.4	1290.9	1282.2	1272.0	1271.0	1278.1	1279.2	1280.2	1268.4	1233.0	1187.9
25°	1279.7	1282.2	1273.5	1264.3	1269.9	1288.9	1293.0	1297.1	1287.9	1258.1	1217.7
27.5°	1318.6	1316.6	1299.7	1279.7	1283.3	1308.9	1314.5	1319.1	1314.5	1288.9	1254.6
30°	1428.8	1422.1	1388.3	1329.9	1311.4	1329.4	1335.0	1347.8	1347.8	1328.9	1294.5
32.5°	1613.3	1600.5	1538.5	1423.7	1359.6	1348.9	1354.5	1375.5	1386.3	1371.4	1334.0
35°	1837.2	1823.9	1735.3	1581.0	1447.8	1387.8	1386.3	1409.8	1438.5	1405.2	1356.5
37.5°	2062.2	2048.4	1941.8	1768.6	1576.4	1469.8	1460.6	1468.8	1481.1	1420.1	1387.8
40°	2287.2	2270.8	2177.5	1978.2	1733.7	1578.4	1554.4	1517.5	1512.3	1468.8	1448.3
42.5°	2510.1	2495.3	2448.1	2213.4	1922.3	1684.5	1647.6	1584.1	1603.6	1577.4	1559.5
45°	2735.1	2736.1	2685.9	2477.3	2149.9	1880.3	1830.6	1731.2	1777.3	1767.5	1777.8
47.5°	2934.5	2931.9	2914.0	2733.6	2432.2	2132.4	2068.4	1953.1	2032.0	2067.9	2146.3
50°	3127.7	3126.1	3127.2	3024.2	2760.2	2432.2	2361.5	2240.6	2418.4	2542.9	2683.4
52.5°	3404.4	3413.1	3351.1	3324.0	3158.9	2786.4	2708.5	2583.4	2875.0	3071.3	3345.5
55°	3682.2	3675.0	3626.3	3654.5	3576.1	3205.6	3124.1	3024.7	3383.4	3598.1	4010.2
57.5°	3845.7	3848.2	3897.9	4035.8	4091.1	3728.3	3654.5	3577.6	3954.8	4107.0	4601.6
60°	3992.7	4004.5	4147.5	4407.9	4558.0	4370.4	4304.8	4230.0	4479.1	4539.6	5115.1
62.5°	4038.9	4075.3	4324.8	4714.3	5013.1	5095.1	5013.6	4848.6	4978.2	4954.7	5463.1
65°	3808.8	3858.5	4305.9	4829.1	5419.5	5782.8	5731.1	5424.6	5403.6	5261.6	5519.9
67.5°	3203.0	3252.7	3827.2	4588.2	5587.6	6378.3	6326.6	5844.9	5661.9	5290.3	5089.5
70°	2343.6	2374.8	2924.2	3863.1	5249.9	6578.2	6596.2	6049.8	5569.7	4900.3	4178.8
72.5°	1350.4	1419.6	1804.4	2717.7	4289.0	6072.9	6197.4	5623.5	4986.4	4088.1	2921.7
75°	580.6	582.2	834.3	1499.0	2904.7	4881.4	5001.8	4661.5	3915.9	2826.8	1560.0
77.5°	276.2	281.4	366.9	669.3	1598.9	3372.6	3697.6	3293.2	2504.5	1358.1	589.4
80°	179.4	183.0	224.5	332.1	784.1	1955.6	2182.1	1899.8	1104.9	485.3	254.2
82.5°	108.6	109.7	150.2	202.9	431.5	885.6	1043.9	824.6	471.5	290.6	149.6
85°	66.1	66.6	91.2	125.6	261.9	306.0	314.2	311.6	276.7	190.1	79.9
87.5°	31.8	32.8	47.1	59.4	103.0	94.8	89.7	104.0	130.7	102.5	34.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
2.5°	960.4	958.9	955.3	953.7	952.7	953.2	952.7	952.7	953.2	953.2	953.2
5°	965.0	962.4	956.8	956.8	959.9	967.1	973.7	978.8	984.5	984.0	984.0
7.5°	985.0	980.4	973.7	975.8	983.5	994.7	1006.5	1017.8	1029.1	1030.1	1029.6
10°	1014.2	1009.6	1002.4	1005.0	1017.3	1034.2	1049.0	1065.4	1077.7	1081.3	1080.3
12.5°	1047.5	1038.3	1032.1	1039.3	1058.8	1081.3	1095.7	1108.0	1116.7	1121.8	1119.8
15°	1081.3	1072.6	1065.4	1080.3	1103.9	1124.9	1132.1	1134.1	1135.7	1140.8	1139.8
17.5°	1114.1	1102.3	1099.8	1119.3	1141.8	1151.0	1146.9	1138.2	1131.6	1135.7	1135.1
20°	1143.3	1134.1	1133.1	1152.6	1161.3	1152.6	1135.1	1119.8	1108.0	1109.0	1108.5
22.5°	1171.0	1163.8	1164.9	1173.1	1159.2	1129.5	1100.8	1079.8	1067.0	1069.5	1071.1
25°	1201.8	1194.6	1197.2	1183.8	1138.2	1086.5	1045.0	1027.0	1021.9	1027.0	1030.6
27.5°	1241.7	1237.1	1235.6	1184.3	1100.8	1022.9	975.8	969.1	973.7	985.0	990.6
30°	1284.8	1284.8	1276.6	1175.6	1049.6	946.6	905.6	906.6	922.5	938.4	944.0
32.5°	1326.3	1335.0	1309.4	1152.1	983.5	872.2	841.0	842.0	855.8	875.3	880.4
35°	1360.6	1385.8	1337.6	1109.0	905.6	809.7	786.1	772.3	772.8	787.7	791.8
37.5°	1407.8	1454.4	1354.0	1045.0	822.5	756.4	729.8	705.7	689.8	683.7	683.7
40°	1489.8	1558.5	1358.1	950.1	744.1	705.7	667.8	639.1	608.3	580.6	575.5
42.5°	1628.7	1715.3	1349.9	841.0	673.4	649.8	612.9	577.6	535.0	496.1	493.0
45°	1874.7	1919.2	1327.8	727.7	610.4	596.0	560.1	521.7	476.6	441.8	439.2
47.5°	2268.8	2205.7	1298.6	627.3	553.0	548.9	521.2	476.6	431.5	407.4	404.9
50°	2844.3	2656.7	1294.5	554.5	506.8	508.9	486.3	445.3	405.9	385.9	382.8
52.5°	3537.1	3201.5	1321.7	503.3	466.4	474.0	462.8	424.8	390.0	373.1	370.0
55°	4209.5	3691.4	1338.1	463.3	428.4	442.8	444.3	412.5	380.8	363.9	361.8
57.5°	4755.3	4060.4	1265.3	426.9	395.6	417.7	428.9	405.4	376.2	363.3	361.3
60°	5135.1	4234.6	1058.3	394.6	371.5	397.7	423.3	405.9	387.4	389.0	390.0
62.5°	5256.0	4157.3	793.8	370.5	355.1	391.0	432.5	426.9	407.9	419.7	421.8
65°	5055.6	3837.5	575.5	351.6	340.8	395.6	460.2	442.3	400.8	409.5	409.5
67.5°	4384.8	3306.0	447.9	334.1	324.4	404.3	487.9	440.7	383.8	394.1	384.9
70°	3478.2	2557.3	373.1	314.7	307.0	391.5	490.4	424.8	363.9	365.9	348.5
72.5°	2308.2	1681.5	320.8	296.2	280.3	352.1	469.4	404.3	344.4	332.6	315.2
75°	1131.0	838.4	279.8	273.2	245.5	306.5	440.7	384.9	323.4	304.9	295.2
77.5°	438.2	356.7	238.8	243.9	213.7	270.1	402.8	357.2	295.7	270.6	262.9
80°	212.7	202.4	195.8	203.5	175.8	230.1	368.0	333.1	270.1	242.4	231.1
82.5°	132.2	125.0	150.2	158.4	135.3	210.1	349.0	312.6	237.8	200.9	191.7
85°	67.1	71.7	100.4	108.1	96.9	167.1	287.5	234.7	171.7	142.5	143.5
87.5°	25.6	34.3	52.8	56.9	51.8	88.1	158.4	136.8	110.2	74.8	69.2
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)