

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: P450487

Luminaire Tested: **GALN-SA1B-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5747 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

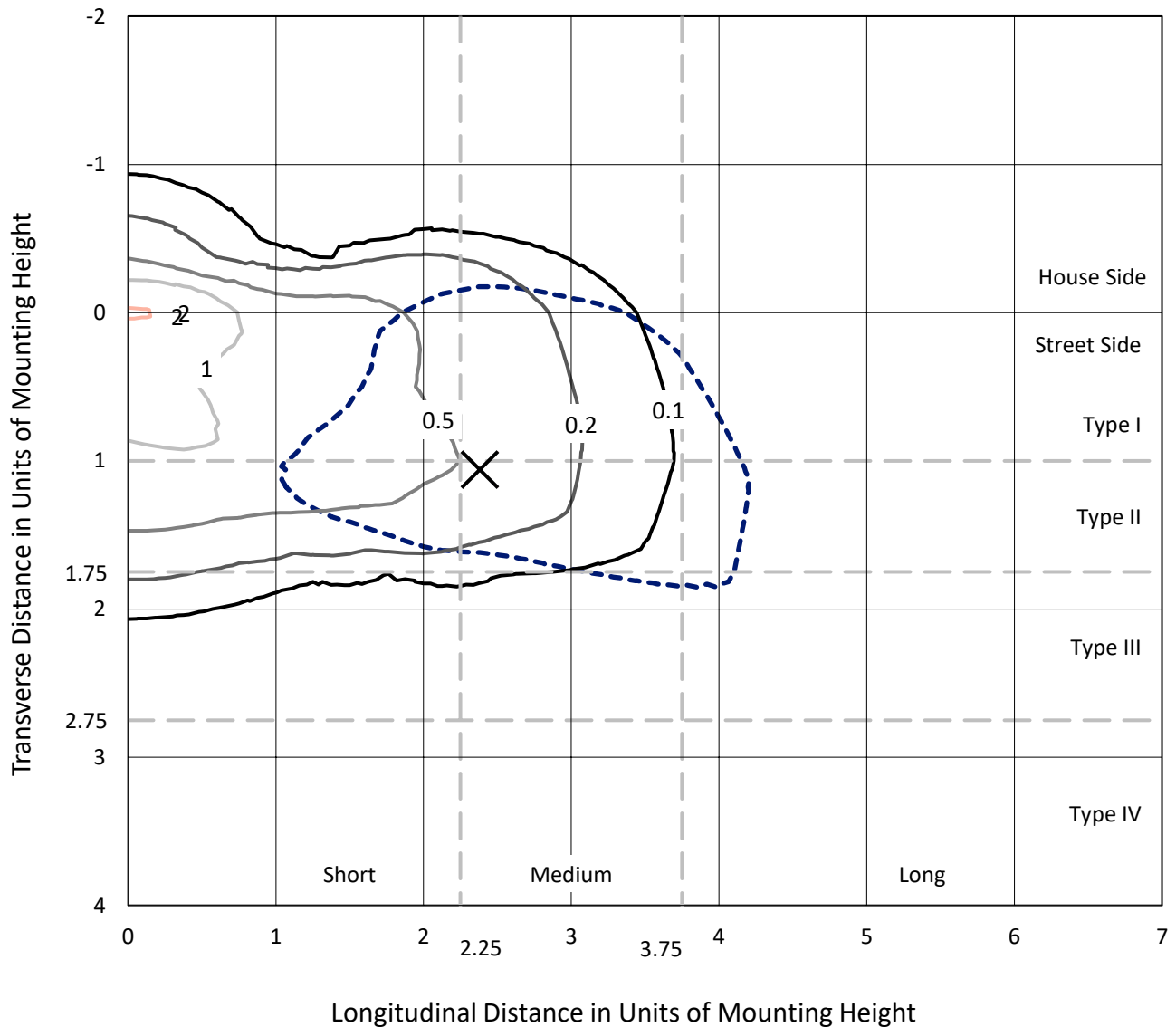
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450487
 CATALOG NUMBER: GALN-SA1B-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

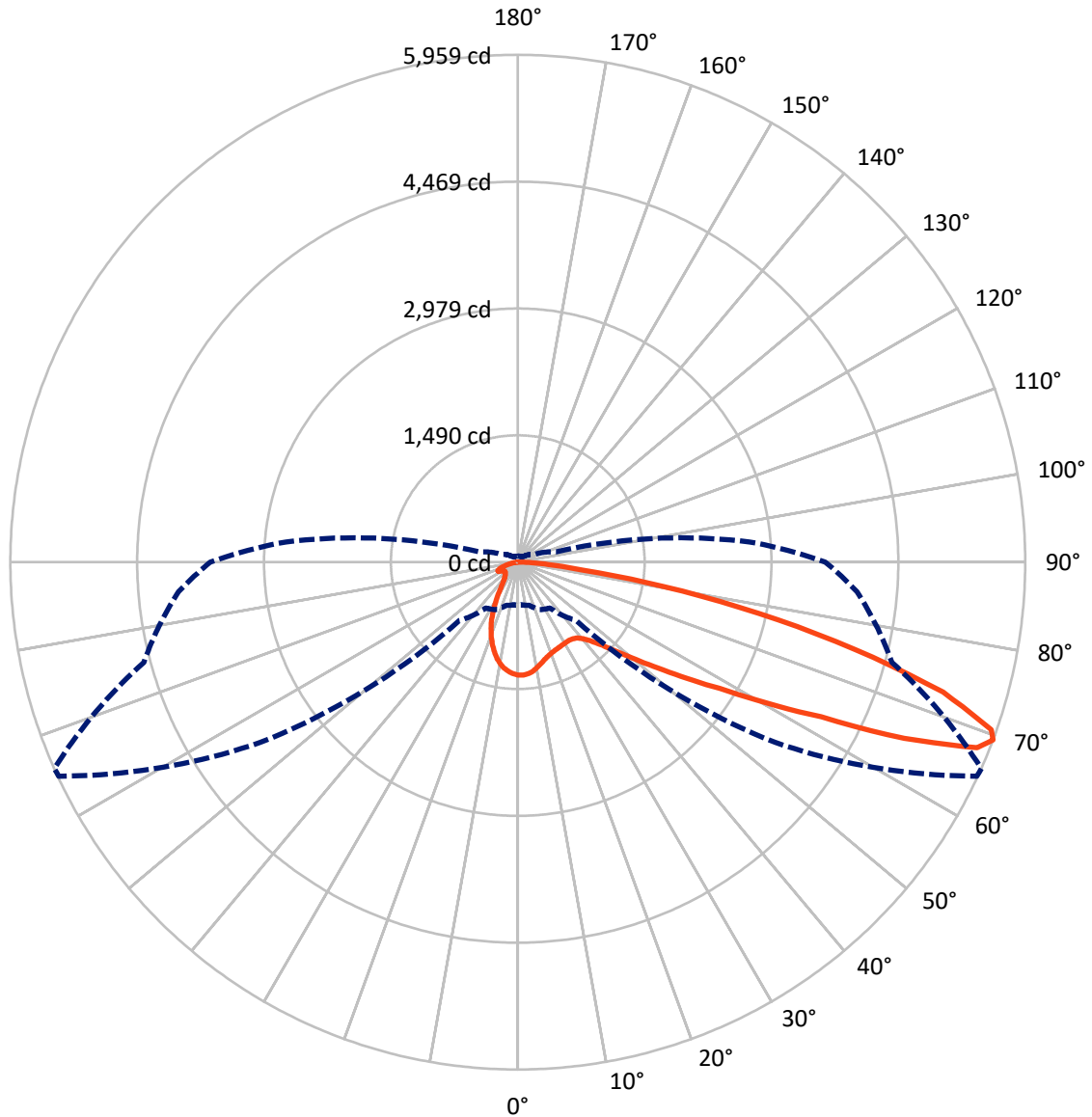
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P450487
CATALOG NUMBER: GALN-SA1B-740-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1080.8	0.0	1080.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4666.2	0.0	4666.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	5747.0	0.0	5747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.0
10°-20°	273.4	4.8
20°-30°	372.1	6.5
30°-40°	500.1	8.7
40°-50°	746.7	13.0
50°-60°	1187.7	20.7
60°-70°	1460.9	25.4
70°-80°	950.5	16.5
80°-90°	140.4	2.4
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°	5747.0	100.0
0°-180°	5747.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450487

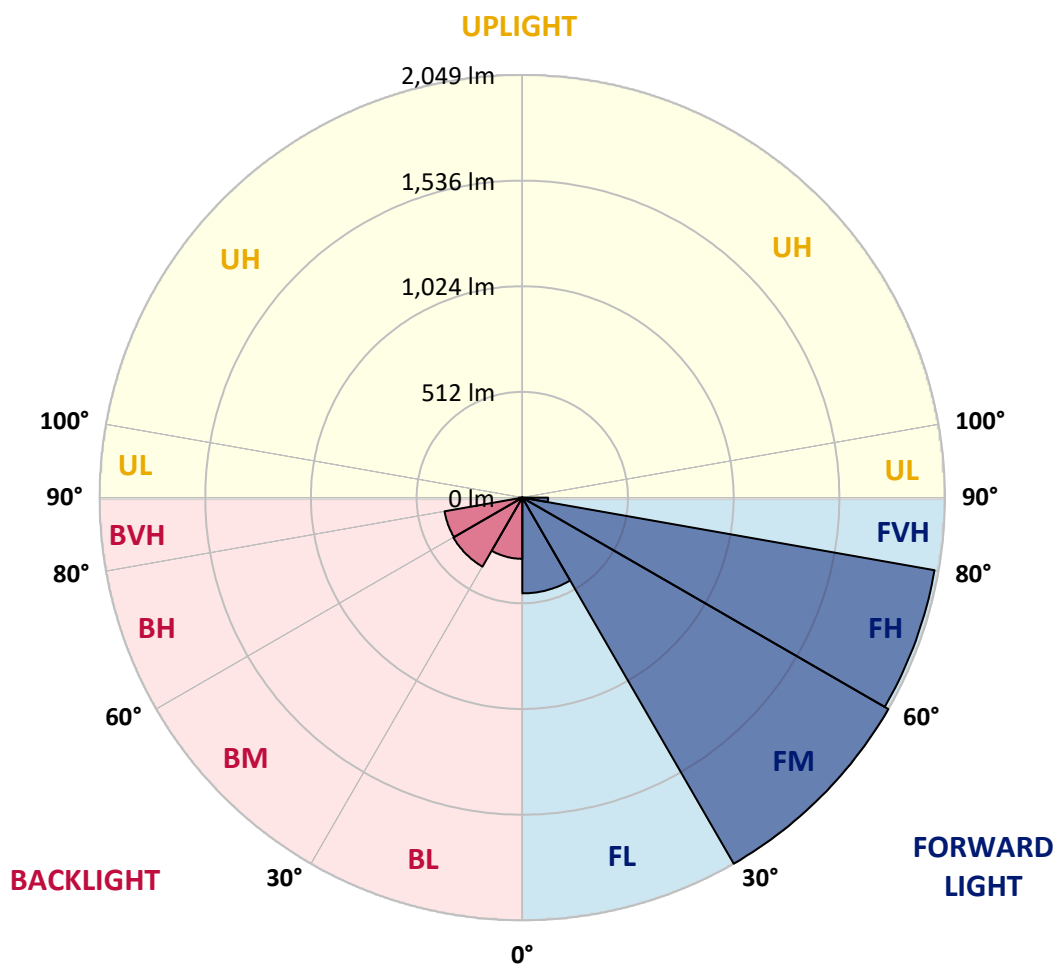
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	464.1	8.1			
FM	(30°-60°)	2048.6	35.6			
FH	(60°-80°)	2028.7	35.3			G2/5000
FVH	(80°-90°)	124.8	2.2			G2/225
BL	(0°-30°)	296.7	5.2	B1/500		
BM	(30°-60°)	385.9	6.7	B1/1000		
BH	(60°-80°)	382.6	6.7	B1/500		G1/500
BVH	(80°-90°)	15.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P450487
 CATALOG NUMBER: GALN-SA1B-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1280.7	1285.8	1291.5	1297.9	1310.0	1316.6	1321.4	1326.8	1327.5	1330.3	1328.1
5°	1186.2	1192.2	1200.8	1212.9	1231.0	1259.4	1288.6	1312.5	1315.4	1328.7	1332.6
7.5°	1107.2	1110.7	1117.7	1137.1	1162.9	1194.4	1237.1	1285.4	1292.5	1324.3	1335.4
10°	1042.9	1046.4	1054.7	1074.8	1100.2	1139.7	1186.5	1250.1	1255.9	1310.6	1336.1
12.5°	994.9	998.1	1007.0	1026.7	1056.0	1092.9	1144.5	1211.9	1220.2	1292.5	1330.0
15°	958.3	964.3	971.6	987.9	1018.7	1054.4	1104.4	1176.9	1183.6	1273.4	1325.9
17.5°	942.7	945.5	950.6	965.6	988.2	1023.2	1073.5	1149.6	1157.5	1260.0	1324.9
20°	943.3	946.2	947.1	955.4	971.6	1001.9	1051.5	1127.9	1137.5	1248.2	1326.5
22.5°	965.0	965.3	961.8	958.9	965.3	990.4	1035.9	1111.7	1122.8	1243.1	1327.8
25°	998.4	1004.1	999.0	985.6	973.9	986.0	1029.9	1102.8	1113.3	1235.8	1326.2
27.5°	1052.5	1053.4	1049.3	1031.2	1000.6	991.7	1027.3	1096.1	1105.0	1230.4	1318.2
30°	1125.0	1122.2	1118.4	1098.3	1050.3	1013.7	1032.8	1090.0	1099.3	1222.4	1308.7
32.5°	1198.6	1207.5	1204.0	1180.4	1118.0	1056.3	1050.3	1089.4	1097.0	1216.4	1298.2
35°	1276.5	1280.7	1297.2	1285.1	1221.2	1125.4	1083.0	1099.3	1105.3	1216.7	1290.9
37.5°	1337.6	1348.8	1387.6	1398.1	1338.0	1216.7	1136.2	1127.3	1129.8	1232.3	1293.7
40°	1411.5	1430.6	1480.5	1523.5	1484.0	1335.4	1226.6	1179.2	1182.3	1269.9	1312.5
42.5°	1505.0	1518.4	1585.6	1643.8	1637.4	1492.3	1336.1	1264.1	1265.7	1344.6	1365.0
45°	1614.5	1633.6	1709.1	1796.6	1811.5	1669.9	1494.2	1392.7	1391.7	1460.8	1463.0
47.5°	1754.6	1766.3	1841.1	1936.6	1997.1	1893.0	1686.1	1577.3	1567.1	1630.1	1612.0
50°	1883.5	1901.9	1958.6	2063.0	2213.5	2154.3	1938.5	1816.6	1792.8	1851.6	1821.1
52.5°	1937.6	1957.0	2004.7	2134.2	2399.0	2492.3	2259.0	2102.1	2062.3	2107.5	2096.4
55°	1843.7	1868.8	1913.4	2070.9	2480.5	2882.2	2691.2	2432.1	2403.2	2383.8	2386.9
57.5°	1591.3	1615.2	1675.3	1849.1	2383.1	3165.1	3308.3	2856.4	2794.3	2704.9	2720.2
60°	1211.3	1226.3	1257.4	1450.0	2094.5	3238.6	4009.1	3392.6	3353.2	3024.7	3035.6
62.5°	860.3	877.1	898.8	994.9	1533.4	3031.4	4557.8	4141.5	4000.5	3356.0	3345.5
65°	698.6	687.1	713.2	758.1	899.7	2349.4	4681.3	5180.9	4986.8	3792.4	3646.6
67.5°	574.5	562.4	588.1	668.0	684.3	1363.7	4236.4	5855.7	5816.8	4266.9	3952.5
69°	508.6	502.2	524.8	615.8	656.9	968.5	3690.5	5949.5	5958.8	4546.7	3999.6
70°	458.3	460.8	482.8	589.4	644.5	798.5	3154.3	5820.0	5898.3	4686.4	3948.6
72.5°	337.4	342.8	373.3	488.2	632.7	677.6	1877.1	5083.6	5222.0	4694.6	3612.2
75°	235.8	233.3	260.3	367.6	597.7	671.5	1102.5	3931.5	4088.4	4057.8	3035.2
77.5°	154.4	158.5	180.1	259.7	502.8	666.4	718.6	2789.2	2891.1	2713.8	1795.3
80°	108.8	108.5	120.6	177.3	373.0	640.3	588.5	1758.1	1732.3	1066.5	532.4
82.5°	62.4	66.8	80.8	124.8	249.5	563.6	541.4	840.8	767.6	303.9	179.8
85°	34.7	36.3	48.1	75.4	145.8	424.6	472.6	382.5	360.9	127.0	77.3
87.5°	11.1	12.1	20.1	38.2	66.2	200.5	267.7	176.6	162.9	45.8	31.2
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: P450487
 CATALOG NUMBER: GALN-SA1B-740-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1329.1	1332.9	1322.7	1312.8	1303.9	1291.5	1280.4	1271.1	1264.8	1263.8	1260.6
5°	1333.5	1333.8	1314.4	1288.3	1262.9	1234.8	1205.9	1185.2	1165.8	1155.0	1149.6
7.5°	1336.7	1333.8	1298.8	1256.5	1207.5	1156.6	1105.6	1064.9	1033.4	1021.0	1025.8
10°	1335.4	1326.5	1275.3	1207.5	1136.2	1060.1	986.9	929.6	877.1	850.1	850.7
12.5°	1328.4	1313.8	1240.3	1152.4	1047.7	945.9	833.8	756.5	695.7	659.8	648.6
15°	1322.4	1296.9	1199.2	1077.6	947.5	802.0	665.5	570.0	519.1	490.8	490.4
17.5°	1316.0	1280.7	1154.3	998.4	832.2	645.1	501.9	429.0	405.1	408.0	403.2
20°	1309.3	1261.6	1107.5	910.2	691.9	481.2	375.9	346.3	352.9	366.0	367.9
22.5°	1301.7	1241.2	1057.3	813.2	544.2	362.2	304.9	300.4	317.6	338.0	340.9
25°	1289.9	1215.8	993.9	711.6	419.8	291.8	267.0	270.2	287.1	304.3	306.2
27.5°	1273.4	1184.2	930.0	585.0	315.4	250.5	244.1	248.2	256.5	267.0	269.6
30°	1251.1	1148.6	856.4	475.5	252.7	229.8	227.2	229.5	234.2	238.7	240.0
32.5°	1228.8	1114.2	782.3	364.1	225.3	216.1	213.6	213.6	213.6	214.2	214.5
35°	1208.1	1081.8	702.7	283.6	211.0	205.3	201.8	198.0	197.3	195.1	195.1
37.5°	1196.7	1052.2	618.1	237.4	200.5	196.4	191.6	185.2	181.7	182.0	181.4
40°	1198.9	1032.8	541.0	211.3	191.9	187.5	180.1	172.8	170.6	170.6	170.0
42.5°	1224.0	1026.4	467.2	197.6	183.6	178.5	169.3	162.6	161.4	161.0	161.7
45°	1281.9	1042.0	401.0	188.7	176.6	169.0	159.8	153.7	152.4	152.4	152.1
47.5°	1394.9	1092.6	353.6	183.0	171.5	161.7	152.1	146.1	143.9	143.2	143.2
50°	1570.6	1202.4	318.3	177.9	165.2	155.0	145.1	138.1	134.6	134.3	134.0
52.5°	1814.7	1373.6	304.6	174.1	158.2	148.0	137.2	130.5	126.0	125.1	124.4
55°	2100.2	1612.6	323.4	171.2	150.9	140.0	128.9	121.9	117.8	115.8	115.5
57.5°	2430.9	1899.7	394.6	167.4	144.2	131.4	120.6	113.6	109.2	106.9	106.3
60°	2727.8	2194.7	519.1	165.2	138.4	122.2	111.1	104.7	100.6	98.3	98.0
62.5°	3054.0	2476.1	667.7	171.2	135.9	113.3	102.2	96.4	92.9	90.7	90.7
65°	3402.5	2757.7	766.1	191.6	139.7	106.3	92.6	87.8	84.7	83.1	82.7
67.5°	3637.4	2855.1	631.1	212.6	149.3	98.7	83.4	79.6	77.7	76.1	76.1
69°	3611.9	2731.9	465.6	218.0	152.1	94.8	78.3	75.4	72.9	72.2	71.6
70°	3531.4	2591.6	390.2	214.5	149.9	91.3	75.1	71.6	69.4	68.7	68.4
72.5°	3145.4	2247.5	290.6	186.5	127.6	79.2	66.5	63.3	61.4	60.5	60.5
75°	2613.2	1837.0	226.9	148.3	99.9	66.8	57.0	54.4	52.8	52.2	51.9
77.5°	1464.6	1025.8	162.9	116.2	75.7	54.1	47.7	45.5	43.9	43.3	43.3
80°	408.0	293.1	95.8	76.7	51.6	41.1	37.9	36.3	34.1	32.5	33.4
82.5°	153.7	127.0	54.7	46.1	32.8	27.4	26.4	25.1	24.2	22.0	22.0
85°	74.8	61.7	35.0	24.5	18.1	14.3	13.7	13.0	12.4	10.8	11.1
87.5°	25.8	27.4	15.3	8.9	5.4	3.5	2.9	1.6	1.6	1.6	1.6
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)