

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: P450678

Luminaire Tested: **GALN-SA1C-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6088 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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

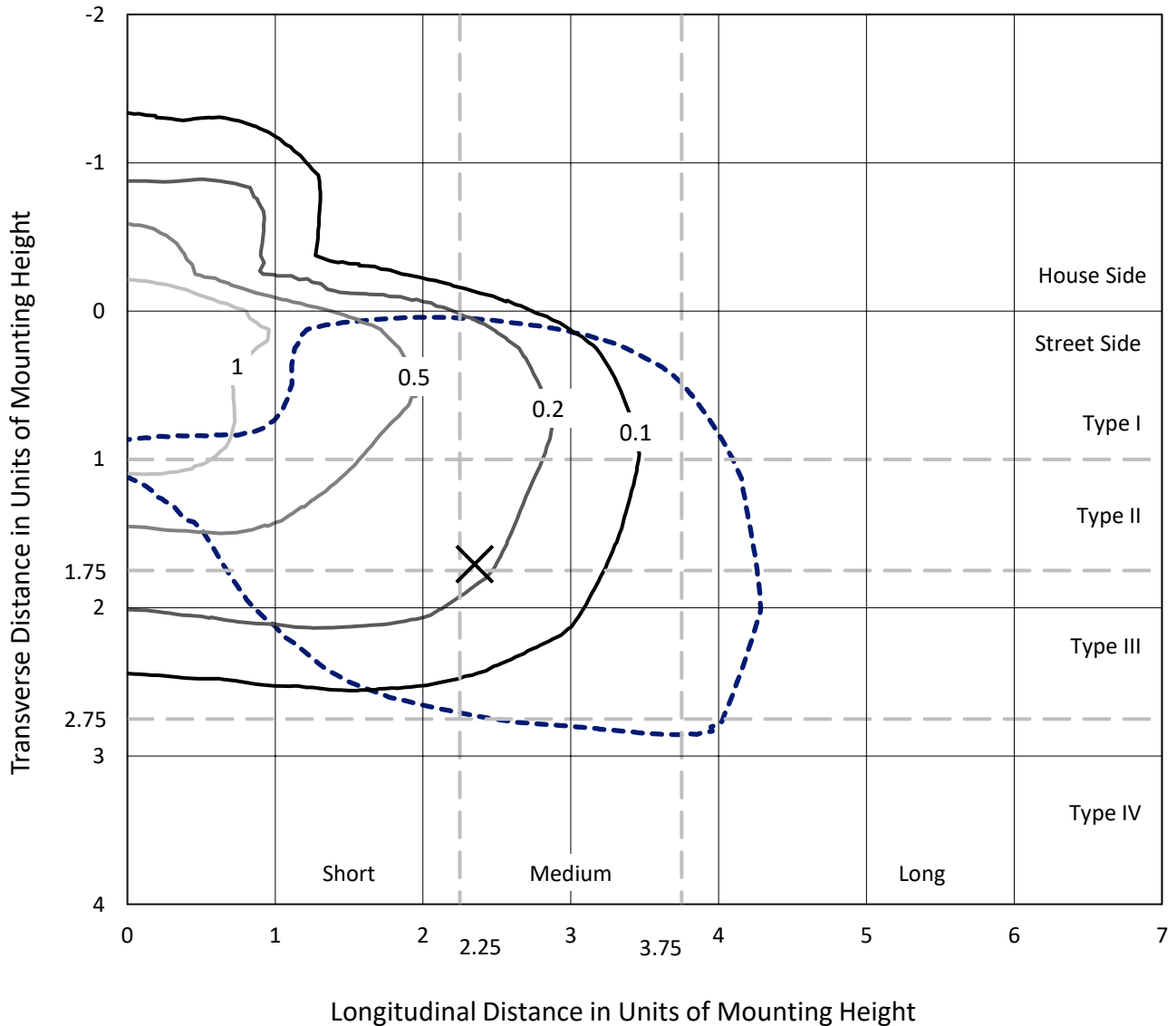




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Iso-Footcandle Lines of Horizontal Illumination

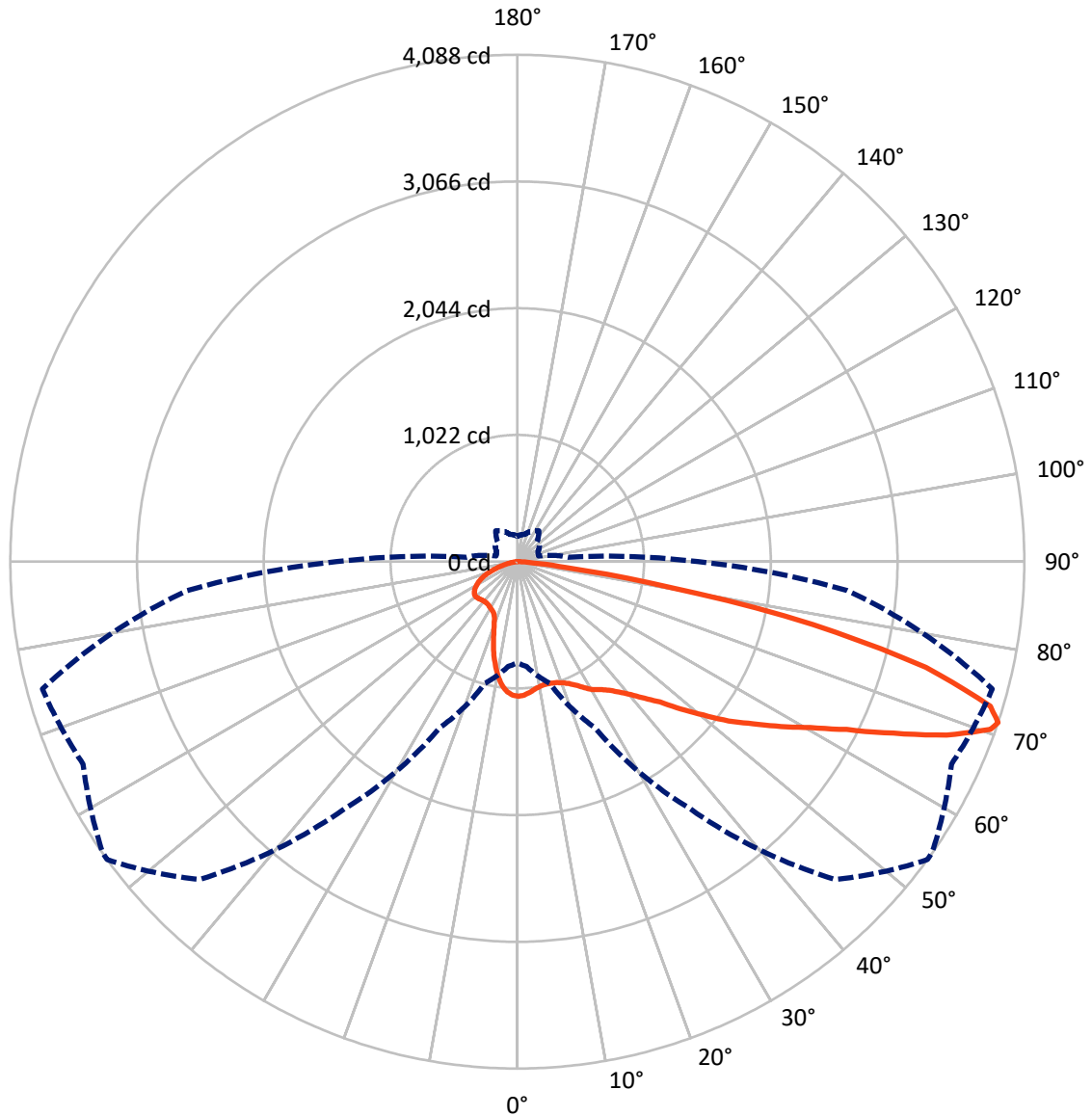
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.2	0.0	1099.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4988.8	0.0	4988.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	6088.0	0.0	6088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	1.6
10°-20°	255.6	4.2
20°-30°	425.6	7.0
30°-40°	629.3	10.3
40°-50°	886.4	14.6
50°-60°	1186.9	19.5
60°-70°	1496.0	24.6
70°-80°	1021.7	16.8
80°-90°	89.9	1.5
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°	6088.0	100.0
0°-180°	6088.0	100.0

Coefficient of Utilization



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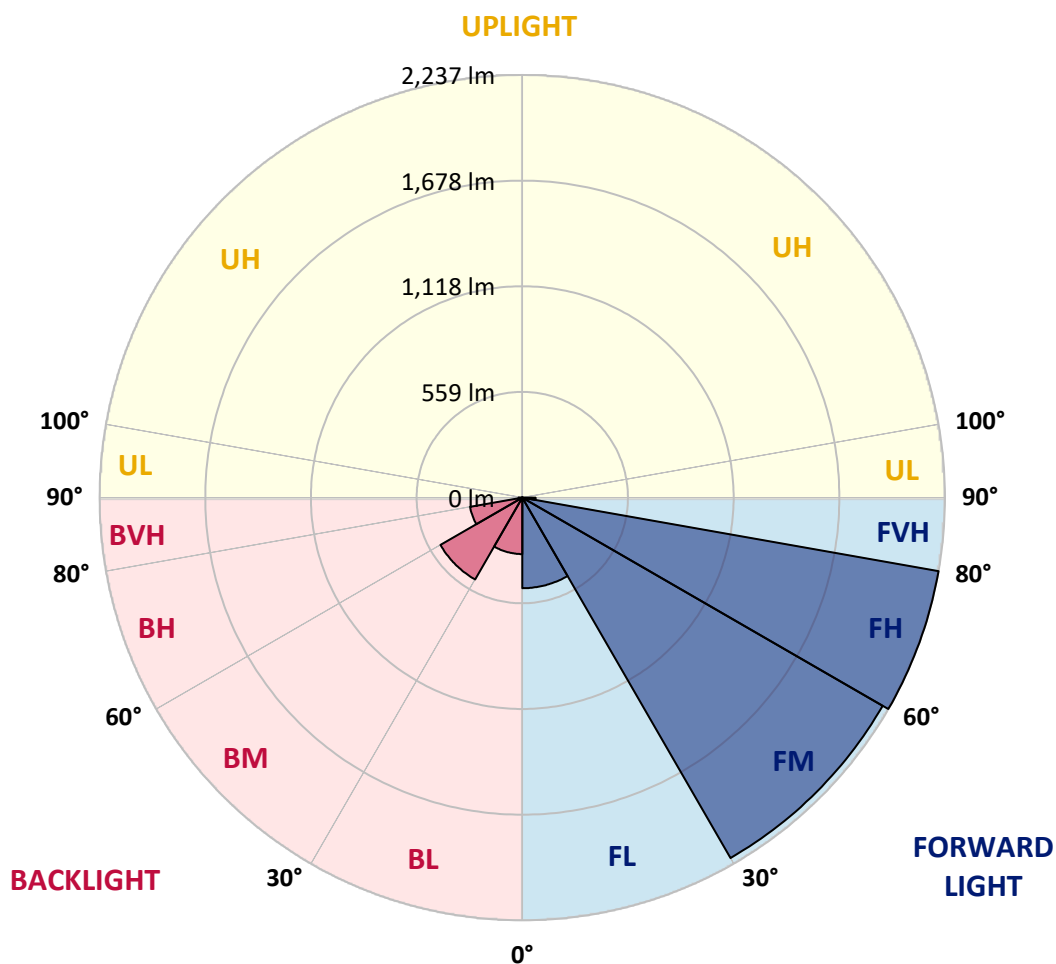
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.2	7.9			
FM (30°-60°)	2202.4	36.2			
FH (60°-80°)	2237.0	36.7			G2/5000
FVH (80°-90°)	70.2	1.2			G1/100
BL (0°-30°)	298.7	4.9	B1/500		
BM (30°-60°)	500.1	8.2	B1/1000		
BH (60°-80°)	280.7	4.6	B1/500		G1/500
BVH (80°-90°)	19.6	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2
2.5°	1049.4	1054.3	1055.6	1058.9	1065.8	1071.4	1077.0	1076.3	1084.2	1087.5	1090.5
5°	1002.7	1004.0	1008.9	1015.5	1027.7	1043.1	1058.2	1058.6	1078.0	1093.4	1101.0
7.5°	968.5	972.7	976.0	982.9	995.8	1012.5	1036.5	1038.5	1073.0	1103.6	1119.7
10°	946.1	951.0	954.6	963.2	976.0	994.8	1020.7	1024.4	1069.4	1119.7	1148.0
12.5°	925.7	930.6	933.9	945.1	961.9	984.9	1014.2	1018.4	1070.7	1138.5	1178.9
15°	938.2	942.2	940.8	944.1	955.3	981.6	1016.8	1021.1	1075.7	1156.6	1209.5
17.5°	993.8	997.1	986.2	973.7	968.5	987.9	1025.0	1029.6	1085.5	1175.3	1240.7
20°	1075.7	1084.5	1060.9	1032.9	1007.6	1010.2	1042.1	1047.1	1099.3	1194.1	1272.6
22.5°	1182.2	1188.8	1159.9	1113.8	1067.1	1043.1	1067.8	1070.7	1120.1	1218.4	1307.5
25°	1307.5	1311.5	1271.3	1212.1	1144.7	1099.3	1103.0	1108.2	1154.3	1246.0	1338.4
27.5°	1429.2	1441.7	1395.3	1323.0	1234.2	1158.5	1151.3	1154.6	1191.4	1261.5	1359.8
30°	1573.5	1572.6	1523.6	1439.7	1325.9	1223.0	1197.0	1196.4	1211.5	1269.0	1375.2
32.5°	1688.6	1702.1	1654.1	1562.7	1430.8	1289.7	1228.6	1227.3	1226.9	1282.2	1398.3
35°	1819.5	1821.5	1777.4	1685.4	1544.3	1373.6	1272.6	1266.1	1258.5	1310.5	1429.5
37.5°	1936.6	1945.8	1905.4	1802.1	1655.8	1460.7	1333.2	1328.9	1305.9	1359.5	1479.5
40°	2028.0	2034.9	2010.6	1912.3	1765.6	1554.8	1410.1	1402.2	1374.3	1439.7	1546.2
42.5°	2057.9	2072.1	2081.6	2033.3	1891.9	1666.3	1504.8	1494.9	1473.6	1561.4	1623.2
45°	2060.2	2082.6	2132.9	2135.2	2018.8	1799.8	1615.3	1608.4	1606.8	1717.3	1731.4
47.5°	2042.8	2065.5	2150.0	2195.7	2131.9	1934.6	1774.8	1763.9	1764.9	1910.0	1852.7
50°	2000.7	2027.7	2130.3	2234.5	2220.4	2074.7	1943.2	1939.6	1959.9	2130.0	1978.7
52.5°	1921.5	1954.0	2109.9	2258.9	2286.2	2195.4	2134.6	2124.4	2176.0	2368.7	2116.5
55°	1702.1	1751.1	2035.2	2272.3	2348.6	2310.8	2306.9	2325.3	2393.7	2629.2	2268.1
57.5°	1587.7	1624.5	1873.1	2274.7	2427.6	2445.0	2508.1	2512.7	2632.4	2905.7	2439.4
60°	1525.2	1557.8	1784.3	2259.5	2537.7	2611.1	2714.0	2730.4	2865.6	3205.3	2617.0
62.5°	1470.6	1498.6	1731.1	2207.2	2662.0	2857.4	2980.7	2988.6	3130.3	3536.1	2792.3
65°	1342.0	1373.9	1623.9	2154.9	2769.2	3165.2	3334.5	3325.3	3412.1	3821.6	2902.1
67.5°	1168.7	1209.2	1423.6	1974.4	2822.2	3501.6	3733.1	3721.6	3690.3	4008.7	2933.7
70°	947.4	969.1	1167.4	1662.3	2610.7	3678.2	4047.8	4035.6	3862.7	4033.3	2784.4
71°	815.2	849.1	1016.5	1476.5	2434.8	3624.2	4088.3	4085.0	3863.0	3965.3	2671.9
72.5°	636.3	657.0	805.0	1144.1	2069.4	3317.8	3988.3	4000.8	3779.1	3776.2	2440.1
75°	402.5	411.7	505.1	673.5	1135.5	2349.6	3404.6	3438.4	3355.6	3090.9	1814.6
77.5°	233.8	245.7	302.5	396.9	490.6	1275.3	2436.1	2472.9	2331.5	1701.8	742.9
80°	136.1	149.3	199.3	230.5	225.3	473.2	1240.4	1303.2	1009.6	429.8	208.5
82.5°	75.6	84.5	140.1	140.4	120.0	154.6	390.3	408.4	288.1	173.3	85.2
85°	54.9	62.2	90.4	81.9	57.5	66.4	135.8	142.4	116.4	73.0	27.6
87.5°	19.4	27.6	49.7	39.5	15.8	13.8	39.1	31.9	29.6	20.4	6.2
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°	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2
2.5°	1092.1	1092.8	1089.5	1083.6	1077.6	1070.1	1061.5	1054.9	1052.0	1051.7	1051.3
5°	1103.9	1105.6	1093.1	1074.7	1054.3	1029.3	1007.9	983.6	977.3	967.5	970.4
7.5°	1123.0	1122.0	1097.4	1058.2	1010.6	957.6	912.9	886.9	859.9	852.4	852.7
10°	1150.3	1144.1	1097.4	1024.7	945.1	866.5	804.0	764.6	743.2	725.4	718.9
12.5°	1179.3	1163.5	1086.8	977.7	860.9	764.6	697.5	644.2	630.4	615.9	616.3
15°	1206.9	1180.6	1066.1	911.6	770.2	655.7	590.6	558.7	554.4	556.1	555.8
17.5°	1231.9	1192.7	1034.6	837.9	664.3	562.3	527.8	530.1	541.6	549.8	550.8
20°	1257.2	1200.0	987.5	739.3	564.3	505.8	507.1	525.2	542.6	553.8	555.4
22.5°	1281.2	1203.3	932.3	643.9	492.0	481.8	501.2	520.6	537.7	548.5	550.2
25°	1297.0	1195.7	854.0	544.2	456.4	473.2	493.6	510.0	524.5	535.7	538.3
27.5°	1301.3	1171.4	757.0	463.7	440.0	465.0	483.7	495.9	507.1	517.6	519.6
30°	1299.0	1135.5	650.5	416.3	430.5	455.5	469.9	478.8	492.3	500.5	502.2
32.5°	1295.3	1093.8	539.3	391.0	422.6	446.6	455.1	463.0	462.7	459.4	461.7
35°	1296.7	1043.8	449.2	375.9	415.7	440.0	447.2	437.4	409.1	407.8	406.5
37.5°	1303.6	994.4	383.8	365.4	412.0	439.0	443.0	397.6	372.6	361.1	358.1
40°	1321.3	936.9	340.7	357.5	411.7	446.6	423.6	377.5	329.5	307.1	305.5
42.5°	1345.0	880.3	314.4	352.5	415.7	458.1	415.7	349.2	297.0	283.8	281.8
45°	1380.2	815.5	299.9	350.2	421.6	462.4	413.0	328.5	283.8	273.3	273.3
47.5°	1420.0	753.7	292.0	348.6	429.1	459.4	389.7	321.9	277.5	278.9	285.1
50°	1459.4	700.1	286.1	345.0	435.7	457.8	380.1	321.6	279.2	296.0	307.1
52.5°	1505.1	662.3	278.9	339.0	435.7	447.2	377.2	328.2	283.8	288.7	293.7
55°	1560.4	650.5	269.7	326.2	427.8	420.9	375.5	337.7	287.1	275.6	277.5
57.5°	1633.4	669.5	260.8	310.1	409.7	393.6	374.9	340.4	279.5	270.0	268.0
60°	1718.2	707.4	258.1	293.7	385.1	370.3	370.9	332.8	269.0	259.1	260.8
62.5°	1777.8	730.0	256.5	281.2	358.1	344.6	361.4	323.6	264.4	255.8	257.5
65°	1777.8	702.4	241.4	262.1	323.3	313.7	349.9	312.1	258.5	248.6	247.0
67.5°	1710.3	621.9	218.4	233.5	284.8	278.5	333.8	298.3	249.6	242.0	238.1
70°	1534.7	471.6	189.4	199.9	236.1	241.7	313.1	279.5	234.8	225.6	219.7
71°	1457.5	410.7	177.2	182.8	217.4	225.6	303.2	271.6	228.2	215.1	204.5
72.5°	1308.5	345.9	158.8	161.1	185.8	200.6	282.5	256.5	215.7	197.0	185.1
75°	994.1	252.6	127.9	126.6	137.5	159.2	239.1	228.6	189.1	163.8	156.9
77.5°	429.5	137.5	95.7	96.7	93.4	120.7	188.1	196.3	162.1	133.2	126.9
80°	130.2	79.3	65.4	66.8	62.5	80.9	132.5	153.9	130.2	103.6	95.0
82.5°	66.8	47.4	44.7	44.1	39.8	45.7	80.2	105.2	93.1	64.8	57.2
85°	28.9	25.3	22.0	21.4	18.7	16.4	28.6	52.6	49.3	36.2	34.5
87.5°	7.2	6.6	4.3	3.9	2.3	0.3	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)