

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: P451055

Luminaire Tested: **GALN-SA1D-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451055
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-SA1D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5889 lumens
Efficiency: N/A
Efficacy: 90.6 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

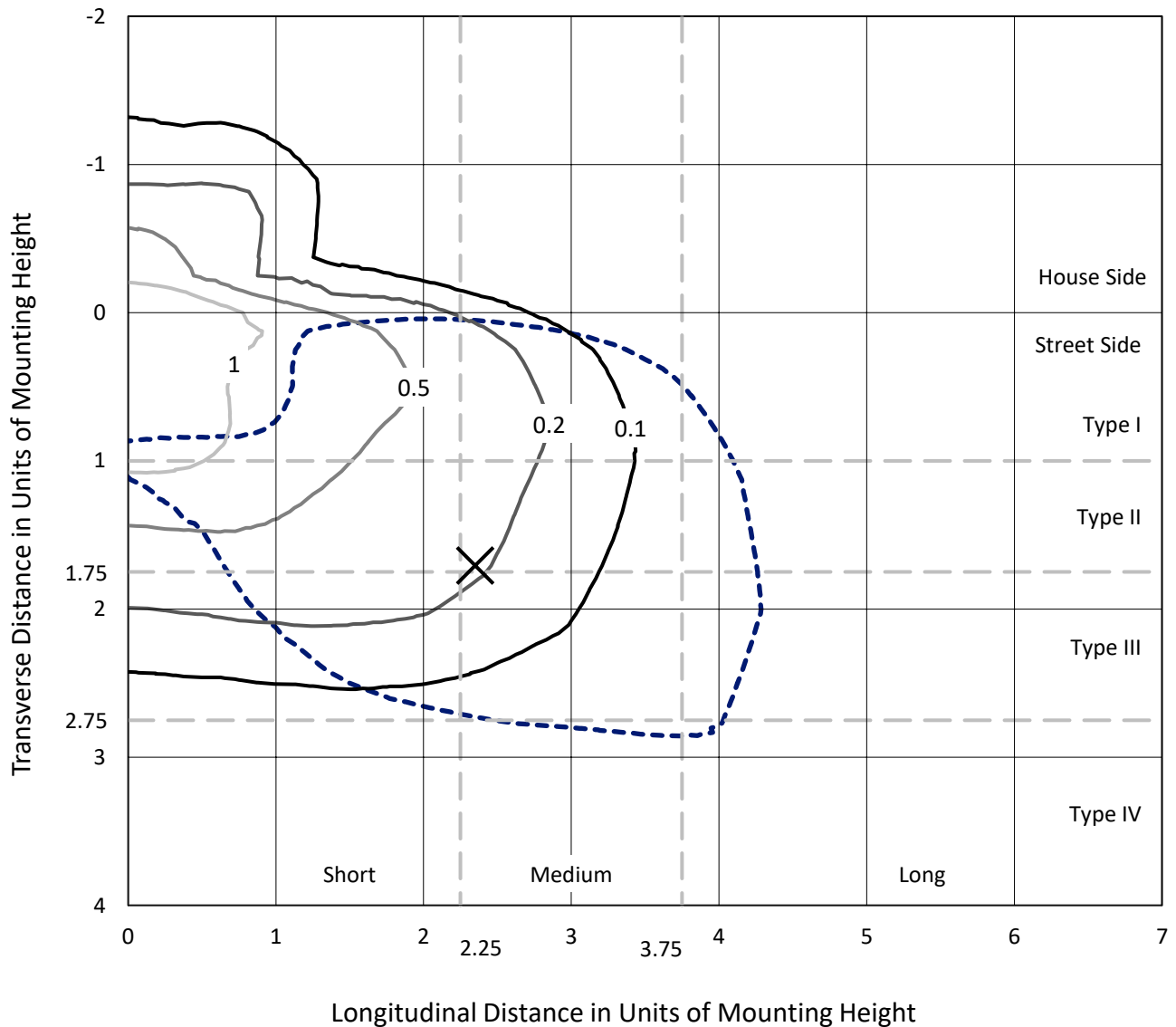
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

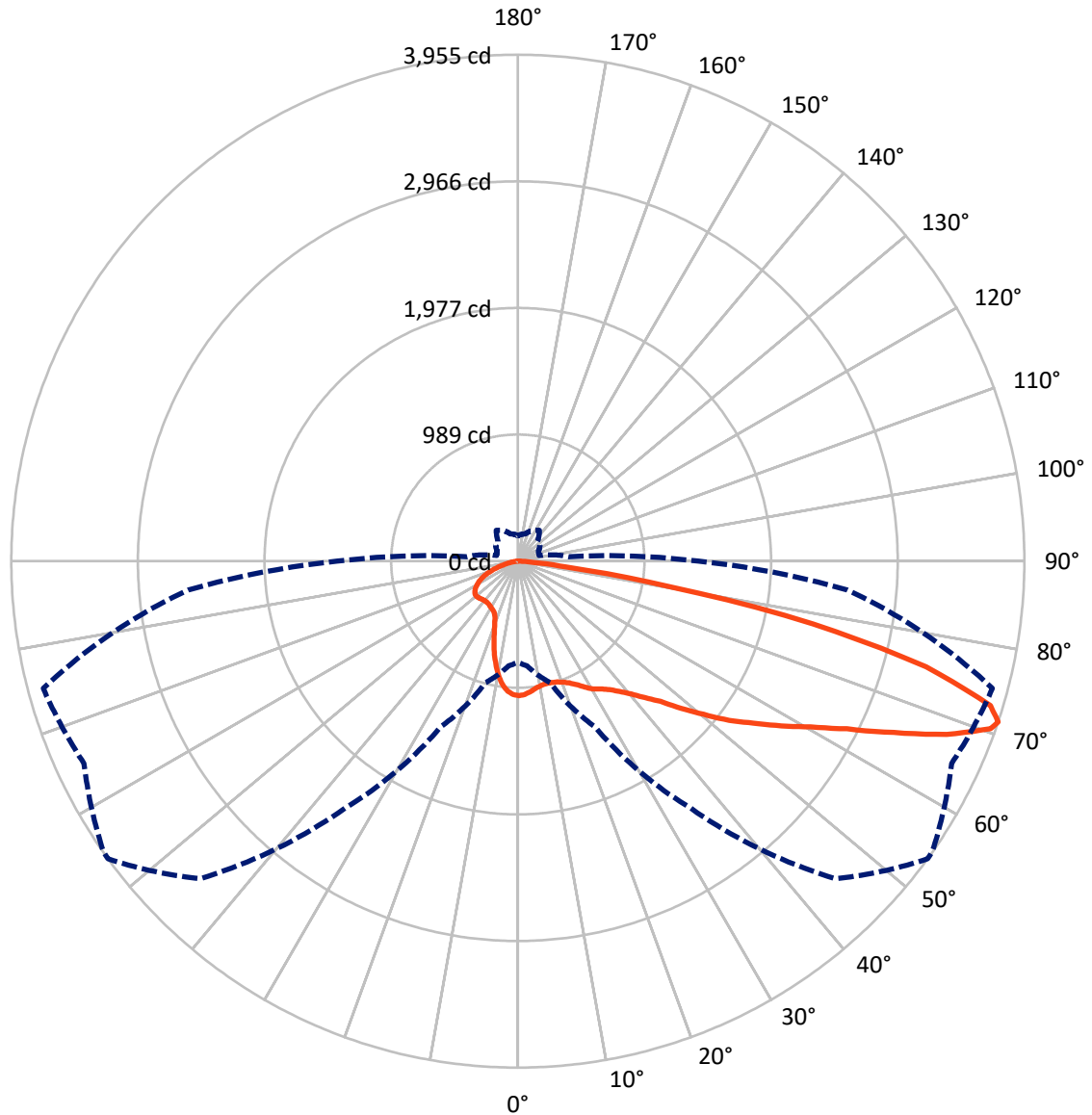
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1063.2	0.0	1063.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4825.8	0.0	4825.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	5889.0	0.0	5889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.6
10°-20°	247.2	4.2
20°-30°	411.7	7.0
30°-40°	608.7	10.3
40°-50°	857.4	14.6
50°-60°	1148.1	19.5
60°-70°	1447.1	24.6
70°-80°	988.3	16.8
80°-90°	86.9	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°	5889.0	100.0
0°-180°	5889.0	100.0

Coefficient of Utilization



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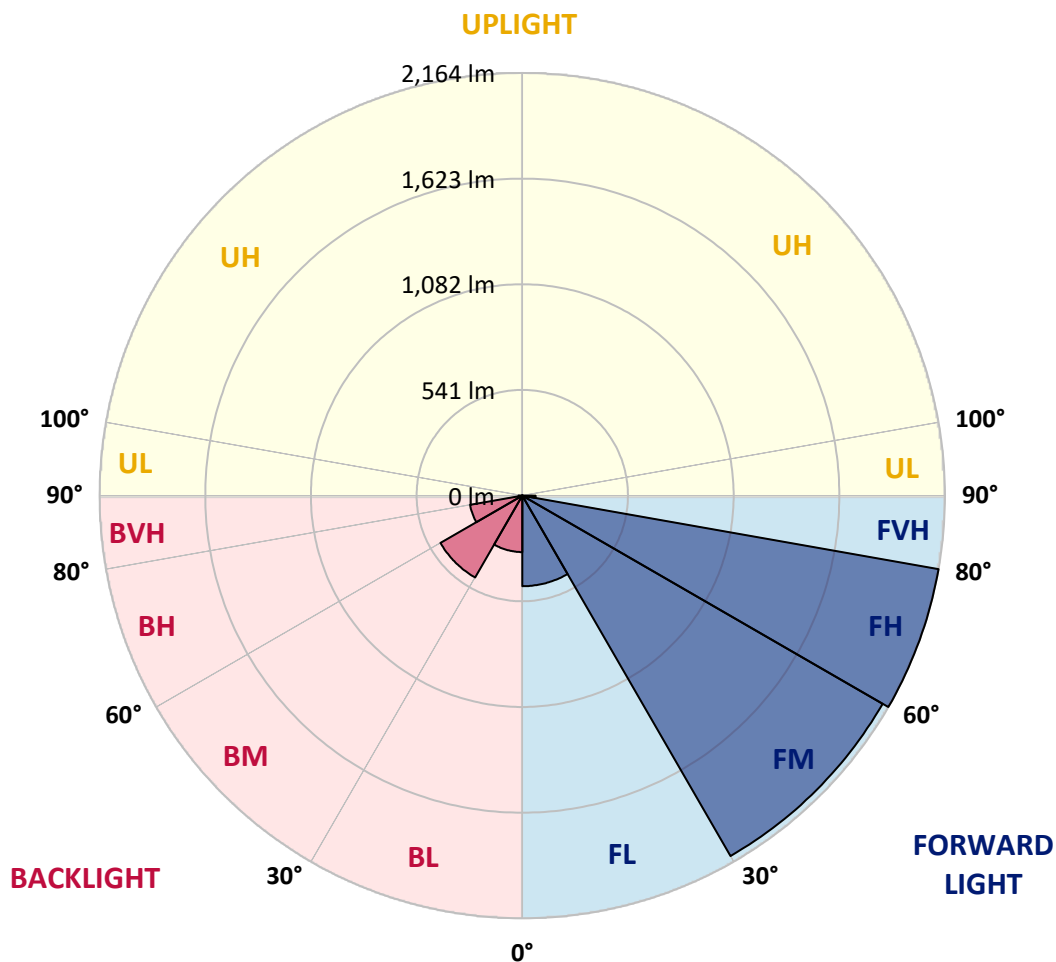
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	463.6	7.9			
FM	(30°-60°)	2130.4	36.2			
FH	(60°-80°)	2163.8	36.7			G2/5000
FVH	(80°-90°)	67.9	1.2			G1/100
BL	(0°-30°)	289.0	4.9	B1/500		
BM	(30°-60°)	483.7	8.2	B1/1000		
BH	(60°-80°)	271.5	4.6	B1/500		G1/500
BVH	(80°-90°)	19.0	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°	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1015.1	1019.8	1021.1	1024.3	1031.0	1036.4	1041.8	1041.1	1048.8	1052.0	1054.8
5°	969.9	971.2	975.9	982.3	994.1	1009.0	1023.6	1024.0	1042.7	1057.7	1065.0
7.5°	936.8	940.9	944.1	950.8	963.2	979.4	1002.7	1004.6	1038.0	1067.5	1083.1
10°	915.2	919.9	923.4	931.7	944.1	962.3	987.4	990.9	1034.5	1083.1	1110.5
12.5°	895.5	900.2	903.4	914.2	930.4	952.7	981.0	985.2	1035.7	1101.3	1140.4
15°	907.5	911.4	910.1	913.3	924.1	949.5	983.6	987.7	1040.5	1118.8	1170.0
17.5°	961.3	964.5	954.0	941.9	936.8	955.6	991.5	996.0	1050.0	1136.9	1200.2
20°	1040.5	1049.1	1026.2	999.2	974.7	977.2	1008.1	1012.8	1063.4	1155.0	1231.0
22.5°	1143.6	1149.9	1121.9	1077.4	1032.2	1009.0	1032.9	1035.7	1083.4	1178.6	1264.8
25°	1264.8	1268.6	1229.8	1172.5	1107.3	1063.4	1066.9	1072.0	1116.5	1205.3	1294.7
27.5°	1382.5	1394.6	1349.7	1279.7	1193.8	1120.7	1113.7	1116.8	1152.5	1220.2	1315.3
30°	1522.1	1521.2	1473.8	1392.6	1282.6	1183.0	1157.9	1157.2	1171.9	1227.5	1330.3
32.5°	1633.4	1646.5	1600.0	1511.6	1384.1	1247.6	1188.4	1187.1	1186.8	1240.3	1352.6
35°	1760.0	1762.0	1719.3	1630.3	1493.8	1328.7	1231.0	1224.7	1217.4	1267.6	1382.8
37.5°	1873.3	1882.2	1843.1	1743.2	1601.6	1413.0	1289.6	1285.4	1263.2	1315.0	1431.1
40°	1961.7	1968.4	1944.9	1849.8	1707.9	1504.0	1364.0	1356.4	1329.3	1392.6	1495.7
42.5°	1990.7	2004.3	2013.6	1966.8	1830.0	1611.8	1455.6	1446.1	1425.4	1510.3	1570.1
45°	1992.9	2014.5	2063.2	2065.4	1952.8	1741.0	1562.5	1555.8	1554.2	1661.1	1674.8
47.5°	1976.0	1998.0	2079.7	2124.0	2062.2	1871.4	1716.8	1706.3	1707.2	1847.5	1792.2
50°	1935.3	1961.4	2060.7	2161.5	2147.8	2006.9	1879.7	1876.2	1895.9	2060.3	1914.0
52.5°	1858.7	1890.2	2040.9	2185.0	2211.4	2123.6	2064.8	2054.9	2104.9	2291.3	2047.3
55°	1646.5	1693.9	1968.7	2198.1	2271.9	2235.3	2231.5	2249.3	2315.5	2543.2	2193.9
57.5°	1535.8	1571.4	1811.9	2200.3	2348.2	2365.1	2426.1	2430.6	2546.4	2810.7	2359.7
60°	1475.3	1506.8	1726.0	2185.7	2454.8	2525.7	2625.3	2641.2	2771.9	3100.5	2531.4
62.5°	1422.5	1449.6	1674.5	2135.1	2575.0	2764.0	2883.3	2890.9	3028.0	3420.5	2701.0
65°	1298.2	1329.0	1570.8	2084.5	2678.7	3061.7	3225.5	3216.6	3300.6	3696.6	2807.2
67.5°	1130.5	1169.7	1377.1	1909.9	2729.9	3387.1	3611.1	3599.9	3569.7	3877.6	2837.8
70°	916.4	937.4	1129.3	1608.0	2525.4	3558.0	3915.5	3903.7	3736.4	3901.5	2693.4
71°	788.6	821.3	983.2	1428.3	2355.2	3505.8	3954.6	3951.4	3736.7	3835.7	2584.6
72.5°	615.5	635.6	778.7	1106.7	2001.8	3209.3	3857.9	3870.0	3655.6	3652.7	2360.3
75°	389.4	398.3	488.6	651.5	1098.4	2272.8	3293.3	3326.1	3245.9	2989.8	1755.3
77.5°	226.2	237.6	292.7	383.9	474.6	1233.6	2356.5	2392.1	2255.3	1646.2	718.6
80°	131.7	144.4	192.8	223.0	217.9	457.7	1199.9	1260.6	976.6	415.8	201.7
82.5°	73.2	81.8	135.5	135.8	116.1	149.5	377.6	395.1	278.7	167.6	82.4
85°	53.1	60.1	87.5	79.2	55.7	64.3	131.4	137.7	112.6	70.6	26.7
87.5°	18.8	26.7	48.0	38.2	15.3	13.4	37.9	30.9	28.6	19.7	6.0
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°	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1056.4	1057.0	1053.9	1048.1	1042.4	1035.1	1026.8	1020.5	1017.6	1017.3	1017.0
5°	1067.9	1069.5	1057.4	1039.6	1019.8	995.7	975.0	951.4	945.4	935.9	938.7
7.5°	1086.3	1085.4	1061.5	1023.6	977.5	926.3	883.0	857.9	831.8	824.5	824.8
10°	1112.7	1106.7	1061.5	991.2	914.2	838.2	777.8	739.6	718.9	701.7	695.4
12.5°	1140.7	1125.4	1051.3	945.7	832.8	739.6	674.7	623.2	609.8	595.8	596.1
15°	1167.4	1142.0	1031.3	881.8	745.0	634.3	571.3	540.5	536.3	537.9	537.6
17.5°	1191.6	1153.7	1000.7	810.5	642.6	544.0	510.6	512.8	523.9	531.9	532.8
20°	1216.1	1160.7	955.3	715.1	545.9	489.2	490.5	508.0	524.9	535.7	537.3
22.5°	1239.3	1163.9	901.8	622.8	475.9	466.0	484.8	503.6	520.1	530.6	532.2
25°	1254.6	1156.6	826.1	526.5	441.5	457.7	477.5	493.4	507.4	518.2	520.7
27.5°	1258.7	1133.1	732.3	448.5	425.6	449.8	467.9	479.7	490.5	500.7	502.6
30°	1256.5	1098.4	629.2	402.7	416.4	440.6	454.6	463.2	476.2	484.1	485.7
32.5°	1253.0	1058.0	521.7	378.2	408.8	432.0	440.3	447.9	447.6	444.4	446.6
35°	1254.3	1009.6	434.5	363.6	402.1	425.6	432.6	423.1	395.7	394.4	393.2
37.5°	1260.9	961.9	371.2	353.4	398.6	424.7	428.5	384.6	360.4	349.3	346.4
40°	1278.1	906.3	329.6	345.8	398.3	432.0	409.7	365.2	318.7	297.1	295.5
42.5°	1301.0	851.6	304.1	341.0	402.1	443.1	402.1	337.8	287.2	274.5	272.6
45°	1335.1	788.9	290.1	338.8	407.8	447.2	399.5	317.8	274.5	264.3	264.3
47.5°	1373.6	729.1	282.5	337.2	415.1	444.4	376.9	311.4	268.5	269.7	275.8
50°	1411.7	677.2	276.7	333.7	421.5	442.8	367.7	311.1	270.1	286.3	297.1
52.5°	1455.9	640.7	269.7	328.0	421.5	432.6	364.9	317.5	274.5	279.3	284.1
55°	1509.4	629.2	260.8	315.6	413.8	407.2	363.3	326.7	277.7	266.6	268.5
57.5°	1580.0	647.7	252.3	300.0	396.4	380.8	362.6	329.2	270.4	261.2	259.3
60°	1662.1	684.2	249.7	284.1	372.5	358.2	358.8	321.9	260.2	250.7	252.3
62.5°	1719.6	706.2	248.1	272.0	346.4	333.4	349.6	313.0	255.8	247.5	249.1
65°	1719.6	679.5	233.5	253.5	312.7	303.5	338.5	301.9	250.0	240.5	238.9
67.5°	1654.4	601.5	211.2	225.9	275.5	269.4	322.9	288.5	241.4	234.1	230.3
70°	1484.6	456.2	183.2	193.4	228.4	233.8	302.8	270.4	227.1	218.2	212.5
71°	1409.8	397.3	171.5	176.9	210.3	218.2	293.3	262.8	220.8	208.0	197.9
72.5°	1265.7	334.6	153.6	155.9	179.7	194.0	273.2	248.1	208.7	190.5	179.1
75°	961.6	244.3	123.7	122.5	133.0	154.0	231.3	221.1	182.9	158.4	151.7
77.5°	415.4	133.0	92.6	93.5	90.3	116.7	182.0	189.9	156.8	128.8	122.8
80°	126.0	76.7	63.3	64.6	60.4	78.3	128.2	148.9	126.0	100.2	91.9
82.5°	64.6	45.8	43.3	42.6	38.5	44.2	77.6	101.8	90.0	62.7	55.3
85°	28.0	24.5	21.3	20.7	18.1	15.9	27.7	50.9	47.7	35.0	33.4
87.5°	7.0	6.4	4.1	3.8	2.2	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)