

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: P651200

Luminaire Tested: **GALN-SA1D-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6620.3 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

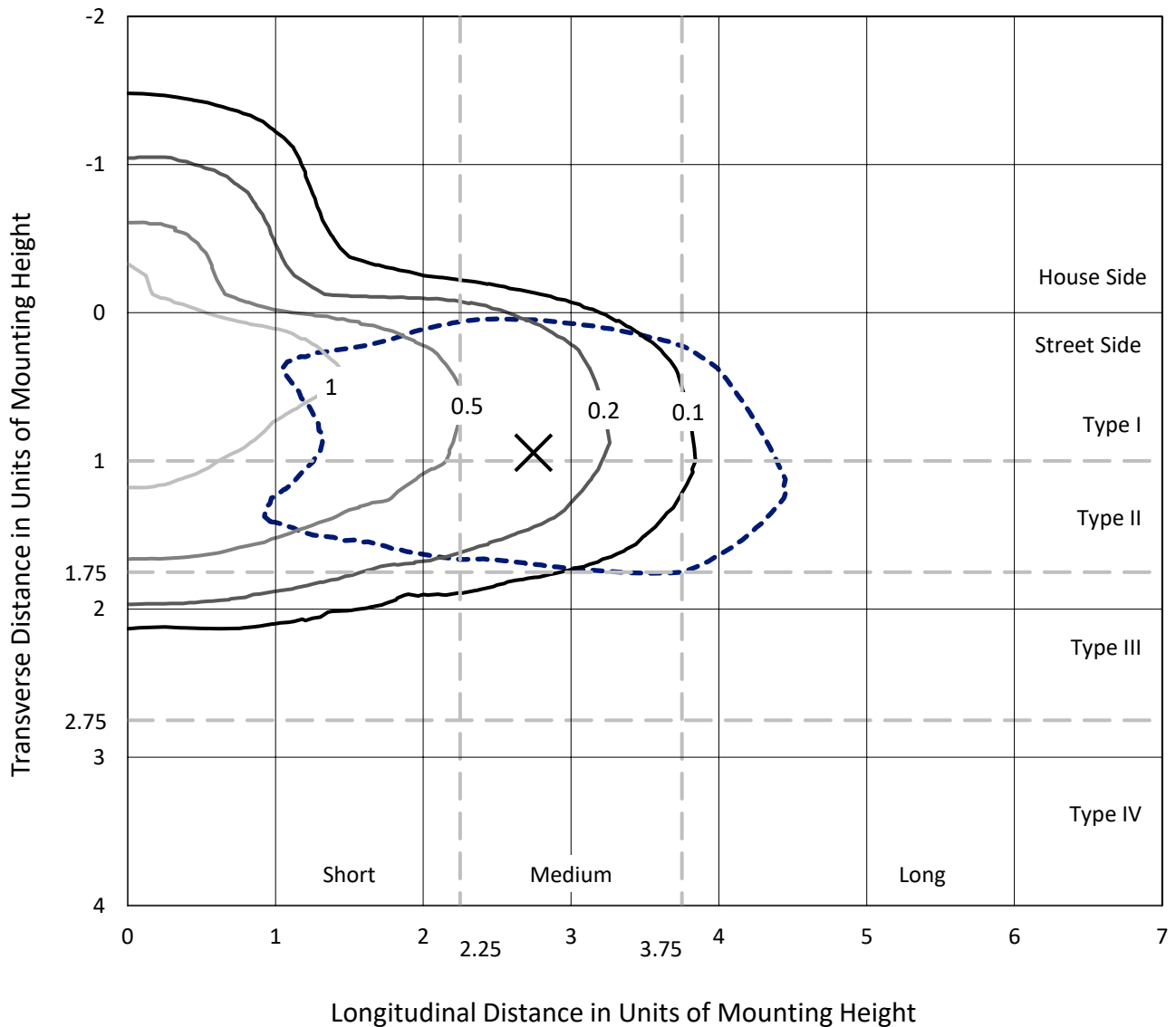
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

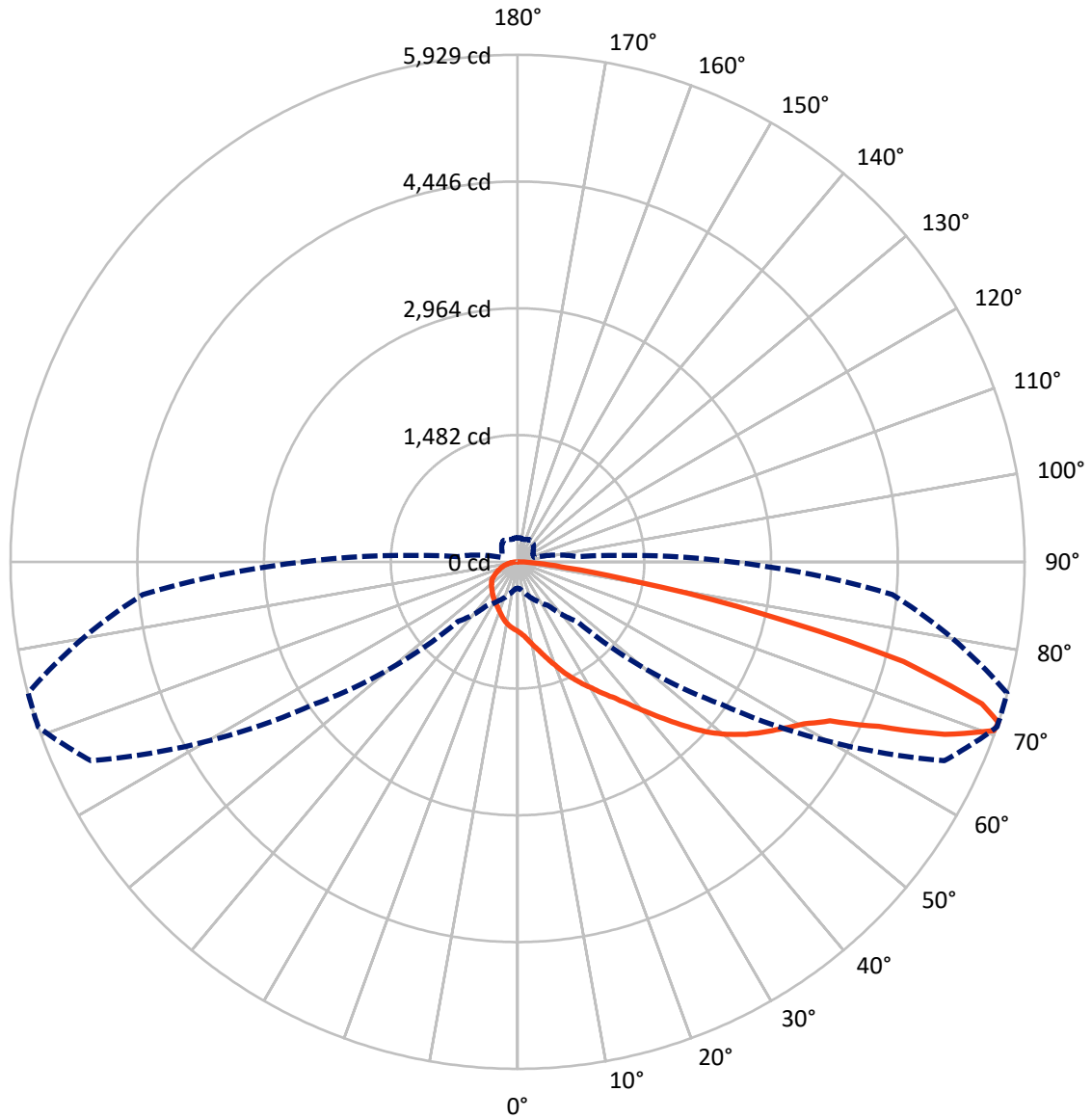
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.7	0.0	1190.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5429.7	0.0	5429.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	6620.3	0.0	6620.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.2
10°-20°	265.1	4.0
20°-30°	463.2	7.0
30°-40°	689.0	10.4
40°-50°	1015.1	15.3
50°-60°	1421.1	21.5
60°-70°	1589.5	24.0
70°-80°	970.9	14.7
80°-90°	124.9	1.9
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°	6620.3	100.0
0°-180°	6620.3	100.0

Coefficient of Utilization

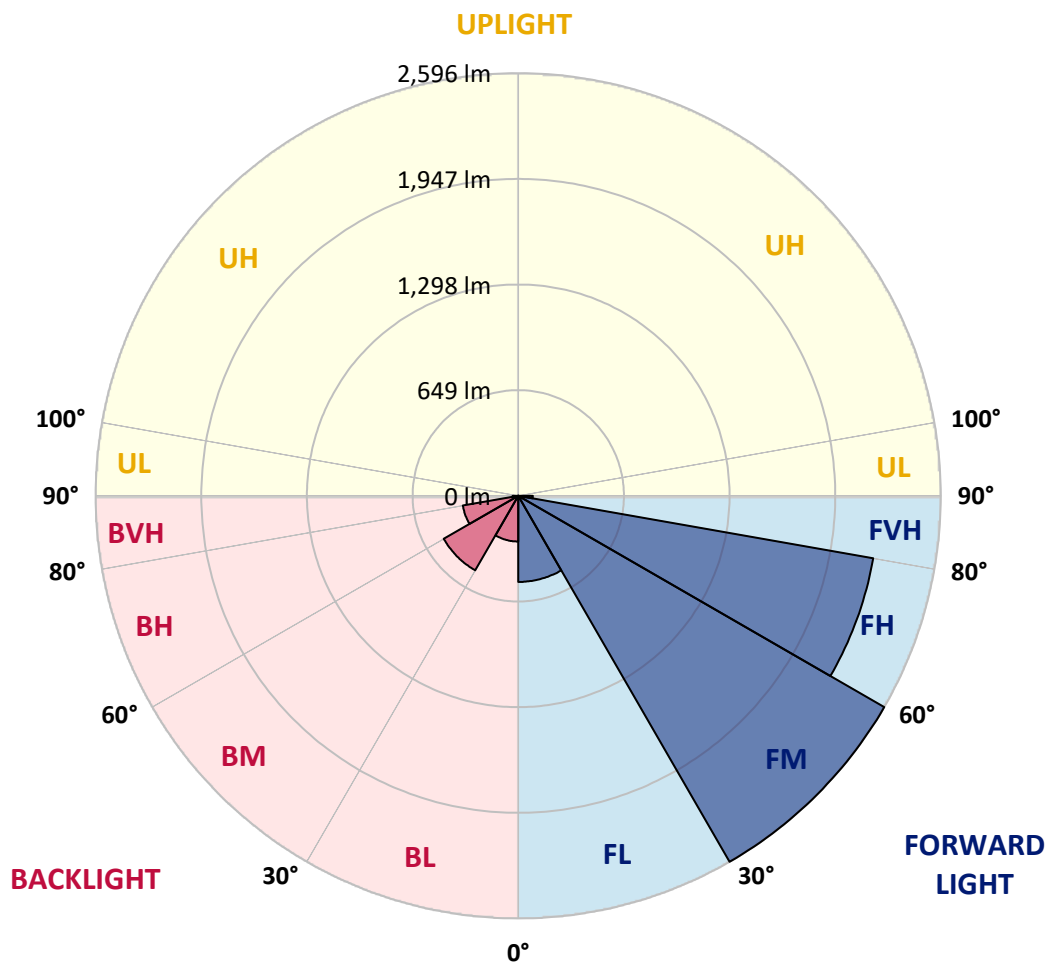


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.0	8.0			
FM (30°-60°)	2596.4	39.2			
FH (60°-80°)	2214.5	33.4			G2/5000
FVH (80°-90°)	89.9	1.4			G1/100
BL (0°-30°)	280.9	4.2	B1/500		
BM (30°-60°)	528.8	8.0	B1/1000		
BH (60°-80°)	345.9	5.2	B1/500		G1/500
BVH (80°-90°)	35.0	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5
2.5°	902.1	897.7	898.0	891.9	883.8	875.1	862.7	851.8	843.1	838.0	823.1
5°	999.5	995.2	989.7	976.2	970.4	949.0	921.7	896.9	878.0	867.5	837.6
7.5°	1078.5	1077.4	1076.0	1068.3	1053.4	1023.6	1000.3	957.3	929.3	909.3	858.3
10°	1127.3	1129.0	1130.1	1131.6	1125.4	1109.8	1077.7	1023.6	987.9	962.4	885.3
12.5°	1152.0	1153.9	1160.0	1173.4	1181.9	1180.0	1153.9	1100.7	1051.6	1018.1	914.0
15°	1167.3	1170.2	1181.1	1198.9	1226.9	1244.8	1232.1	1183.0	1129.0	1089.4	948.2
17.5°	1184.0	1187.3	1199.4	1224.7	1261.5	1300.1	1313.9	1271.8	1213.1	1165.8	986.4
20°	1193.5	1197.8	1215.0	1248.5	1291.4	1347.4	1393.3	1371.1	1307.0	1254.6	1030.5
22.5°	1208.8	1212.4	1226.9	1262.6	1313.9	1384.1	1472.6	1467.9	1411.5	1343.7	1078.8
25°	1250.2	1256.0	1263.4	1284.8	1334.3	1421.6	1538.4	1571.2	1512.6	1436.9	1123.2
27.5°	1328.4	1333.2	1332.8	1335.8	1363.8	1454.0	1595.5	1673.4	1613.0	1531.1	1166.2
30°	1417.6	1419.4	1420.9	1414.4	1420.5	1487.1	1647.9	1774.6	1714.2	1627.9	1203.6
32.5°	1526.1	1529.7	1517.3	1500.6	1495.5	1536.3	1691.3	1875.8	1833.9	1726.2	1240.8
35°	1654.2	1663.6	1638.5	1609.0	1588.3	1606.8	1749.4	1979.0	1956.5	1851.7	1289.9
37.5°	1800.4	1812.1	1788.8	1730.9	1701.4	1706.6	1825.6	2106.8	2111.5	1994.7	1363.0
40°	1920.2	1935.4	1936.2	1854.2	1809.5	1815.3	1921.9	2244.4	2298.5	2171.5	1449.3
42.5°	1999.1	2014.0	2029.7	1981.6	1934.7	1967.8	2034.4	2393.5	2508.9	2386.3	1569.7
45°	2085.7	2099.1	2107.9	2086.0	2059.9	2145.7	2170.1	2552.2	2733.0	2626.0	1701.4
47.5°	2186.1	2201.1	2209.4	2188.7	2178.9	2301.8	2316.4	2700.3	2972.4	2858.9	1847.0
50°	2320.0	2331.3	2327.0	2313.8	2311.7	2421.6	2456.8	2838.9	3170.0	3109.6	1998.0
52.5°	2486.7	2500.1	2504.8	2486.3	2477.9	2507.0	2570.0	2965.2	3349.8	3325.1	2159.2
55°	2587.5	2609.0	2680.9	2710.1	2730.1	2617.7	2691.9	3104.6	3510.9	3552.0	2332.4
57.5°	2458.3	2485.9	2647.1	2792.7	2980.8	2894.2	2864.7	3250.0	3672.1	3772.2	2539.8
60°	2143.2	2149.3	2357.2	2625.3	3003.7	3249.7	3225.3	3481.5	3846.8	3994.2	2813.1
62.5°	1486.8	1499.8	1745.5	2173.4	2720.6	3377.8	3838.8	3881.0	4097.2	4326.4	3213.7
65°	766.7	749.6	973.4	1366.0	2051.1	3073.6	4335.9	4615.7	4640.0	4846.0	3777.7
67.5°	472.0	479.5	584.4	797.6	1212.8	2233.8	4283.8	5513.3	5384.9	5483.8	4301.3
70°	354.4	363.9	435.9	545.8	739.4	1277.1	3445.1	5730.9	5910.3	5884.8	4460.7
71°	308.2	318.0	393.0	496.7	621.2	985.7	2902.5	5503.2	5928.5	5924.2	4400.6
72.5°	262.7	268.9	327.5	420.7	523.6	691.0	2180.6	4935.5	5675.7	5820.8	4186.3
75°	206.3	211.0	237.2	320.9	412.3	424.3	1170.2	3700.1	4661.5	4938.0	3485.1
77.5°	168.1	171.4	184.9	238.3	318.0	300.6	613.8	2408.5	2920.4	3198.7	2053.0
80°	133.6	137.2	145.2	161.6	238.3	214.3	292.9	1220.4	1410.7	1407.8	819.5
82.5°	103.7	104.8	114.3	118.6	163.0	152.1	158.6	516.7	572.4	591.3	295.9
85°	65.5	68.8	101.2	91.0	97.6	89.1	78.2	205.2	252.9	249.3	118.2
87.5°	20.0	21.1	34.2	38.6	43.3	38.9	28.8	60.4	73.8	80.1	29.4
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°	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5	812.5
2.5°	817.3	813.2	799.0	787.4	776.5	764.5	754.3	751.3	748.8	747.7	747.4
5°	824.9	812.9	784.9	761.9	743.8	727.0	716.4	711.7	707.0	707.0	708.5
7.5°	835.8	814.0	770.7	736.5	713.5	697.9	690.3	689.5	690.6	691.7	692.1
10°	847.8	813.2	749.9	707.4	687.0	679.7	680.0	686.3	692.1	696.4	697.2
12.5°	859.4	808.9	725.5	680.0	667.0	668.4	678.6	692.5	703.7	709.9	710.3
15°	872.5	802.0	696.1	654.2	649.8	661.1	680.0	701.1	718.3	728.5	729.6
17.5°	883.5	790.3	665.1	629.2	634.6	655.3	681.5	708.8	729.6	742.3	744.5
20°	895.8	775.4	633.1	605.1	620.7	648.7	678.6	708.1	729.6	741.9	744.9
22.5°	905.7	754.3	602.6	585.5	608.4	640.8	668.8	692.5	709.9	716.4	720.8
25°	909.7	727.7	573.8	569.4	598.5	627.6	646.6	660.0	665.5	664.8	666.6
27.5°	907.5	697.2	549.1	556.7	586.2	607.3	616.8	615.7	605.9	596.8	601.1
30°	898.4	660.8	528.3	543.6	570.2	581.8	580.4	566.2	547.7	530.5	531.6
32.5°	882.0	621.5	509.1	528.7	547.7	552.7	542.9	524.4	497.8	475.6	472.3
35°	868.2	584.0	492.0	511.6	525.0	522.5	513.1	489.0	465.0	445.4	442.1
37.5°	866.0	551.9	475.6	492.3	500.0	496.4	484.7	464.3	455.6	440.7	438.8
40°	877.7	529.4	458.8	472.0	475.6	472.6	459.9	448.3	456.3	452.6	452.6
42.5°	909.3	517.4	443.9	451.5	454.5	456.7	447.6	437.7	447.6	430.8	425.4
45°	959.5	517.8	430.4	431.5	440.3	447.9	441.8	427.1	422.1	388.6	382.1
47.5°	1033.4	530.2	419.6	412.6	428.2	441.0	432.3	411.2	388.6	366.4	362.4
50°	1119.6	552.4	409.7	393.0	412.3	432.3	425.7	401.0	377.7	364.2	361.7
52.5°	1215.3	580.4	397.7	371.1	392.6	428.2	427.1	399.6	367.5	358.4	356.2
55°	1333.6	608.0	382.8	345.7	375.2	425.0	423.2	387.5	365.3	358.8	358.0
57.5°	1471.1	648.1	361.3	319.8	355.2	411.5	407.5	380.2	358.0	353.3	353.0
60°	1692.7	710.3	330.8	296.2	334.7	387.9	393.0	367.9	346.4	345.3	345.0
62.5°	1984.2	797.6	299.1	271.8	311.1	357.3	371.9	351.1	334.0	339.5	340.2
65°	2386.6	871.1	266.3	251.0	284.9	327.8	351.9	335.5	320.2	330.8	330.8
67.5°	2649.0	872.5	236.5	229.6	258.4	303.1	330.8	316.9	302.3	320.2	320.9
70°	2594.4	764.5	211.8	207.1	232.5	276.5	307.5	296.5	279.8	295.9	290.0
71°	2506.3	704.4	201.9	198.3	222.4	263.8	296.5	287.5	270.7	281.2	278.0
72.5°	2365.9	611.7	185.9	186.7	207.1	247.8	281.2	271.8	255.1	260.9	259.8
75°	1999.8	534.1	159.0	162.3	178.0	220.5	250.7	243.5	226.3	226.3	225.2
77.5°	1250.2	373.3	132.1	133.9	151.0	188.9	215.4	209.2	192.8	187.4	185.9
80°	466.5	192.8	103.4	105.5	116.1	148.9	178.3	172.5	155.8	149.5	143.7
82.5°	176.4	96.8	76.0	74.3	85.5	113.5	139.7	132.8	119.7	104.8	100.4
85°	66.6	48.0	46.6	45.2	50.2	67.3	86.6	85.1	71.3	60.8	59.7
87.5°	17.5	15.6	18.2	13.5	14.2	12.7	13.1	5.5	2.5	1.1	0.8
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)