

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: P450672

Luminaire Tested: **GALN-SA1C-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450672
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-SA1C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5983 lumens
Efficiency: N/A
Efficacy: 105.0 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

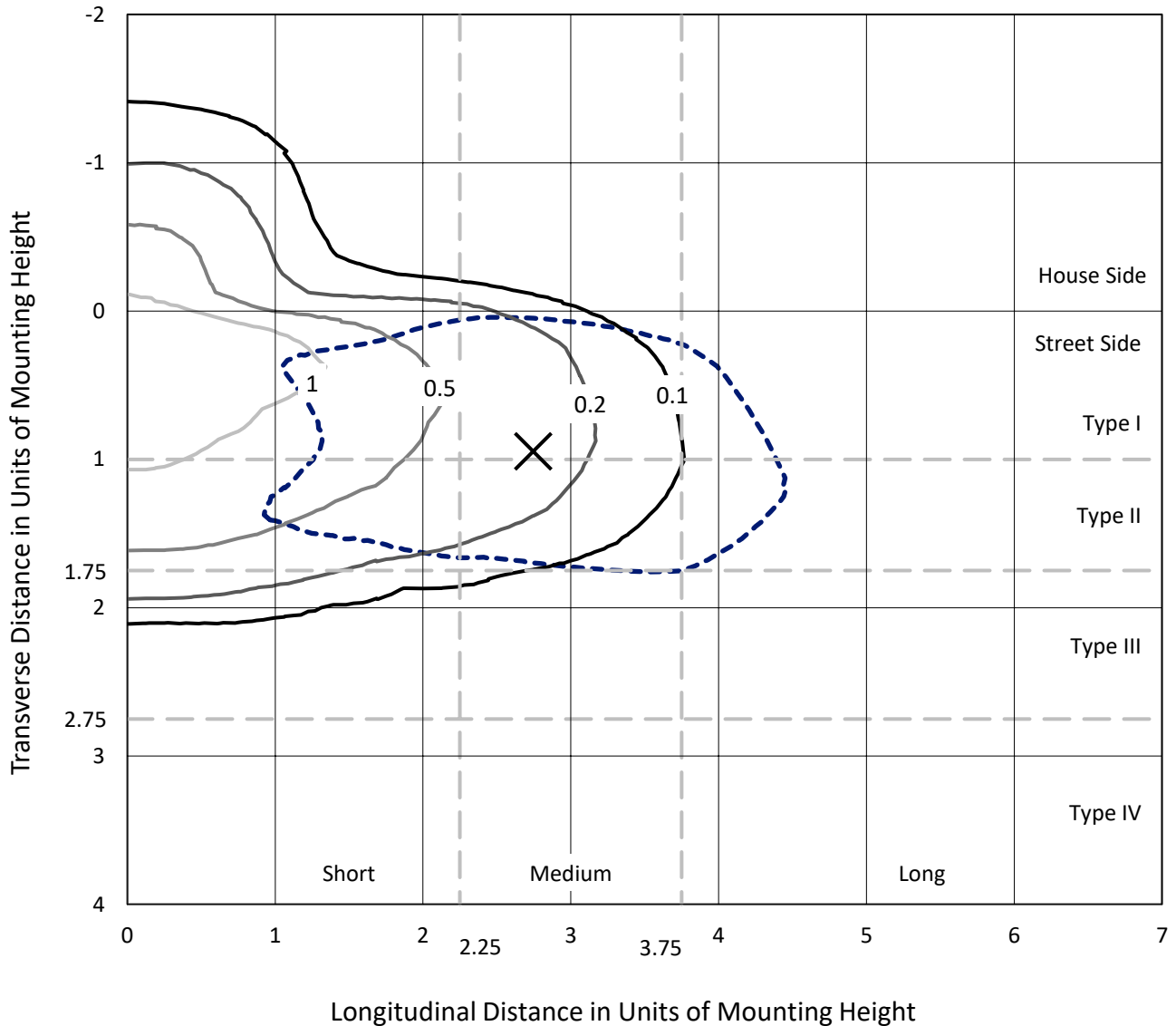
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

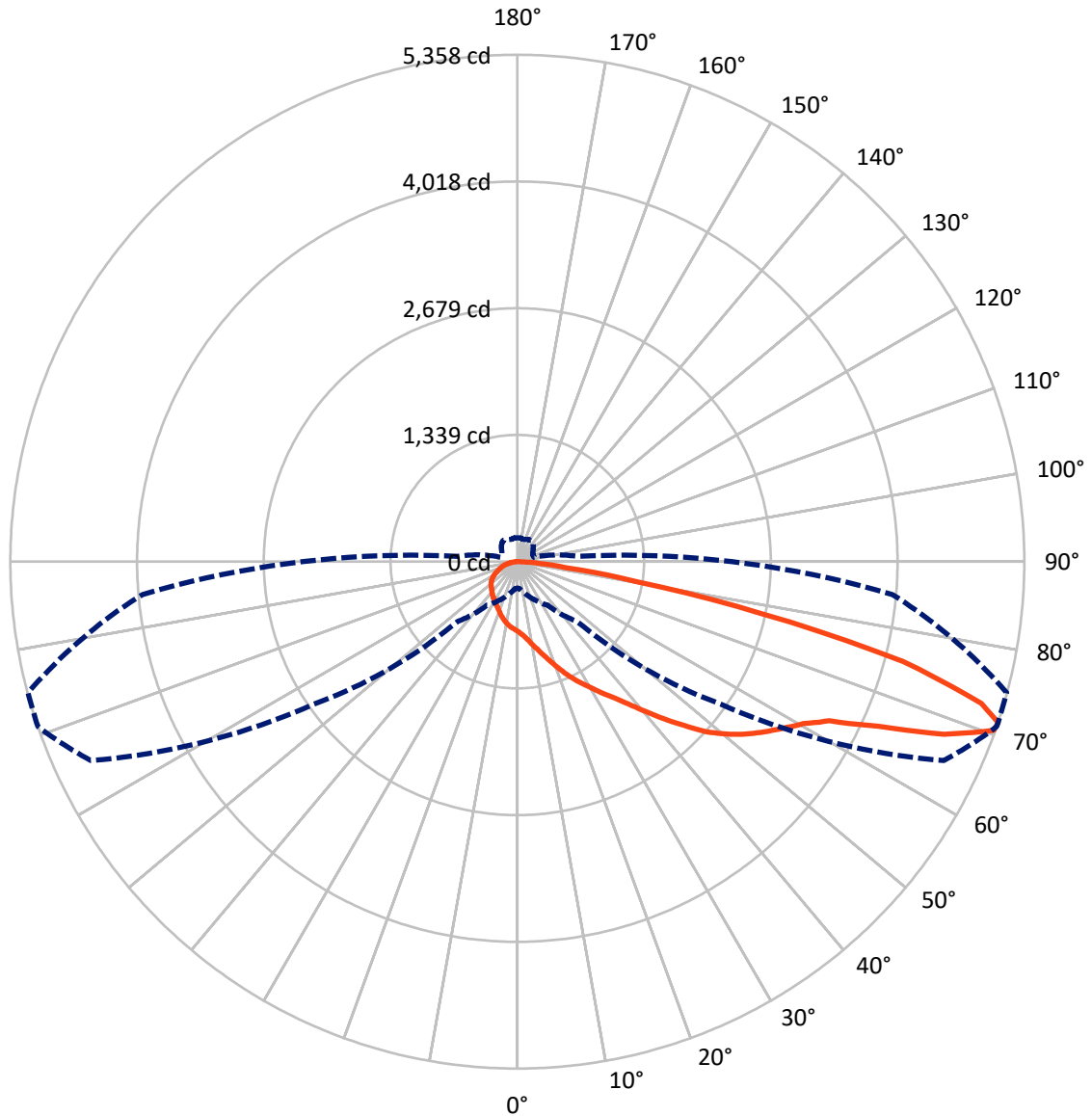
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1076.0	0.0	1076.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4907.0	0.0	4907.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	5983.0	0.0	5983.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.2
10°-20°	239.5	4.0
20°-30°	418.6	7.0
30°-40°	622.6	10.4
40°-50°	917.4	15.3
50°-60°	1284.3	21.5
60°-70°	1436.5	24.0
70°-80°	877.5	14.7
80°-90°	112.9	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°	5983.0	100.0
0°-180°	5983.0	100.0



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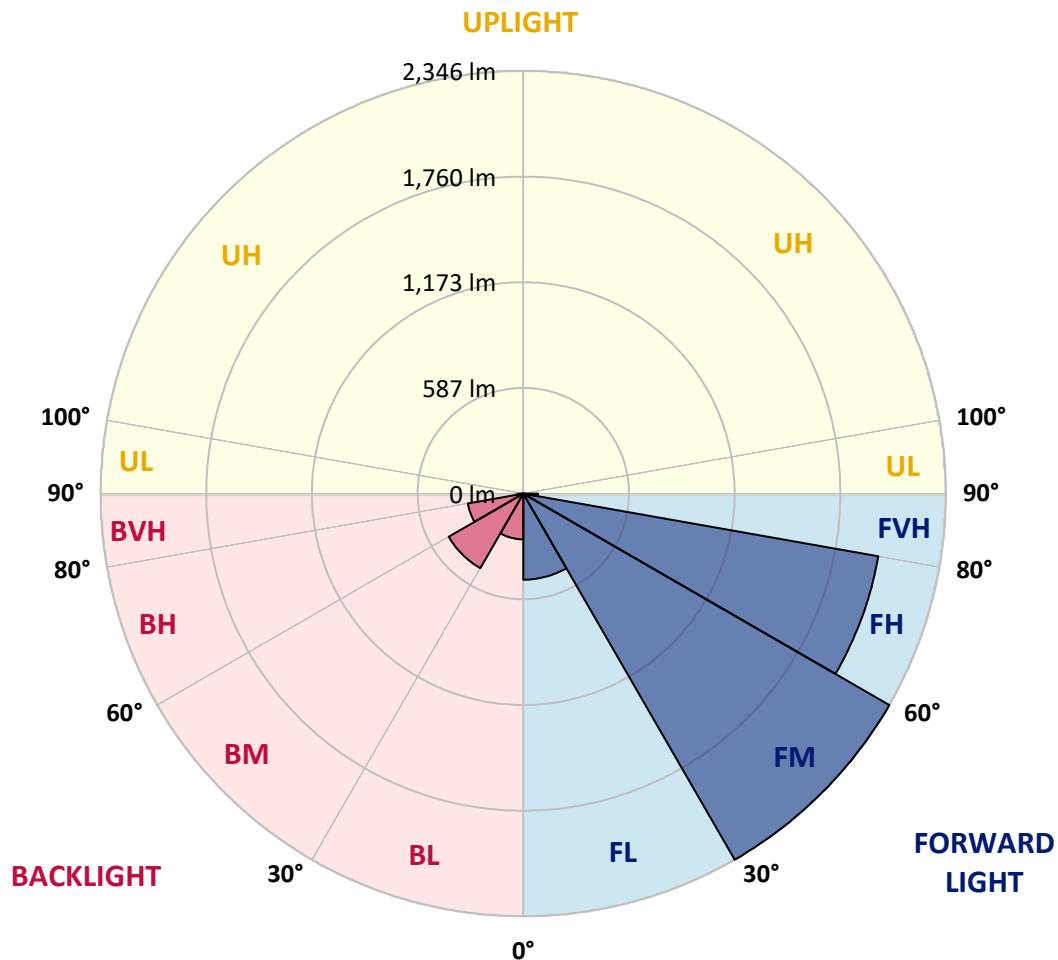
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.0	8.0			
FM (30°-60°)	2346.4	39.2			
FH (60°-80°)	2001.3	33.4			G2/5000
FVH (80°-90°)	81.2	1.4			G1/100
BL (0°-30°)	253.8	4.2	B1/500		
BM (30°-60°)	477.9	8.0	B1/1000		
BH (60°-80°)	312.6	5.2	B1/500		G1/500
BVH (80°-90°)	31.7	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°	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
2.5°	815.2	811.2	811.6	806.0	798.7	790.9	779.7	769.8	761.9	757.3	743.8
5°	903.3	899.4	894.4	882.3	877.0	857.6	832.9	810.6	793.5	783.9	757.0
7.5°	974.7	973.7	972.4	965.5	952.0	925.0	904.0	865.2	839.9	821.8	775.7
10°	1018.7	1020.4	1021.4	1022.7	1017.1	1003.0	974.0	925.0	892.8	869.8	800.1
12.5°	1041.1	1042.7	1048.3	1060.5	1068.1	1066.4	1042.7	994.7	950.3	920.1	826.0
15°	1054.9	1057.5	1067.4	1083.5	1108.8	1125.0	1113.4	1069.1	1020.4	984.5	857.0
17.5°	1070.0	1073.0	1083.9	1106.9	1140.1	1174.9	1187.4	1149.3	1096.3	1053.6	891.5
20°	1078.6	1082.5	1098.0	1128.2	1167.0	1217.7	1259.1	1239.1	1181.2	1133.8	931.3
22.5°	1092.4	1095.7	1108.8	1141.1	1187.4	1250.9	1330.8	1326.5	1275.6	1214.4	975.0
25°	1129.9	1135.1	1141.7	1161.1	1205.8	1284.8	1390.3	1419.9	1367.0	1298.6	1015.1
27.5°	1200.6	1204.9	1204.5	1207.2	1232.5	1314.0	1442.0	1512.3	1457.7	1383.8	1053.9
30°	1281.2	1282.8	1284.1	1278.2	1283.8	1344.0	1489.3	1603.7	1549.2	1471.2	1087.8
32.5°	1379.1	1382.4	1371.3	1356.1	1351.5	1388.4	1528.4	1695.2	1657.3	1560.0	1121.3
35°	1494.9	1503.4	1480.8	1454.1	1435.4	1452.1	1581.1	1788.5	1768.2	1673.5	1165.7
37.5°	1627.1	1637.6	1616.6	1564.3	1537.6	1542.3	1649.8	1904.0	1908.2	1802.7	1231.8
40°	1735.3	1749.1	1749.7	1675.8	1635.3	1640.6	1736.9	2028.3	2077.3	1962.5	1309.8
42.5°	1806.6	1820.1	1834.3	1790.9	1748.4	1778.4	1838.5	2163.1	2267.3	2156.5	1418.6
45°	1884.9	1897.1	1905.0	1885.2	1861.6	1939.2	1961.2	2306.5	2469.9	2373.2	1537.6
47.5°	1975.7	1989.1	1996.7	1978.0	1969.1	2080.2	2093.4	2440.3	2686.3	2583.7	1669.2
50°	2096.7	2106.9	2102.9	2091.1	2089.1	2188.4	2220.3	2565.6	2864.8	2810.2	1805.6
52.5°	2247.3	2259.4	2263.7	2246.9	2239.4	2265.7	2322.6	2679.7	3027.3	3004.9	1951.3
55°	2338.4	2357.8	2422.9	2449.2	2467.3	2365.7	2432.7	2805.6	3173.0	3210.1	2107.9
57.5°	2221.6	2246.6	2392.3	2523.8	2693.8	2615.6	2588.9	2937.2	3318.6	3409.1	2295.3
60°	1936.9	1942.4	2130.2	2372.6	2714.6	2936.9	2914.8	3146.3	3476.5	3609.7	2542.2
62.5°	1343.6	1355.5	1577.4	1964.1	2458.7	3052.6	3469.2	3507.4	3702.7	3909.9	2904.3
65°	692.9	677.4	879.6	1234.5	1853.7	2777.7	3918.4	4171.3	4193.3	4379.5	3414.0
67.5°	426.5	433.4	528.1	720.8	1096.0	2018.7	3871.4	4982.6	4866.5	4955.9	3887.2
70°	320.3	328.8	393.9	493.3	668.2	1154.2	3113.4	5179.2	5341.3	5318.3	4031.2
71°	278.5	287.4	355.1	448.9	561.3	890.8	2623.1	4973.3	5357.8	5353.8	3977.0
72.5°	237.4	243.0	296.0	380.1	473.2	624.5	1970.7	4460.4	5129.2	5260.4	3783.3
75°	186.5	190.7	214.4	290.0	372.6	383.4	1057.5	3344.0	4212.7	4462.7	3149.6
77.5°	151.9	154.9	167.0	215.4	287.4	271.6	554.7	2176.6	2639.3	2890.8	1855.3
80°	120.7	124.0	131.2	146.0	215.4	193.7	264.7	1102.9	1274.9	1272.3	740.5
82.5°	93.7	94.7	103.3	107.2	147.3	137.5	143.4	466.9	517.3	534.4	267.3
85°	59.2	62.2	91.4	82.2	88.1	80.6	70.7	185.5	228.5	225.3	106.9
87.5°	18.1	19.1	30.9	34.9	39.1	35.2	26.0	54.6	66.8	72.3	26.6
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°	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
2.5°	738.6	735.0	722.1	711.6	701.7	690.9	681.7	679.1	676.7	675.8	675.4
5°	745.5	734.6	709.3	688.6	672.1	657.0	647.5	643.2	638.9	638.9	640.2
7.5°	755.3	735.6	696.5	665.6	644.9	630.7	623.8	623.1	624.1	625.1	625.4
10°	766.2	735.0	677.7	639.3	620.8	614.3	614.6	620.2	625.4	629.4	630.1
12.5°	776.7	731.0	655.7	614.6	602.8	604.1	613.3	625.8	636.0	641.6	641.9
15°	788.6	724.8	629.1	591.3	587.3	597.5	614.6	633.7	649.1	658.3	659.3
17.5°	798.4	714.2	601.1	568.6	573.5	592.2	615.9	640.6	659.3	670.8	672.8
20°	809.6	700.8	572.2	546.9	561.0	586.3	613.3	639.9	659.3	670.5	673.1
22.5°	818.5	681.7	544.6	529.1	549.8	579.1	604.4	625.8	641.6	647.5	651.4
25°	822.1	657.7	518.6	514.6	540.9	567.2	584.3	596.5	601.4	600.8	602.4
27.5°	820.1	630.1	496.2	503.1	529.8	548.8	557.4	556.4	547.5	539.3	543.2
30°	811.9	597.2	477.5	491.3	515.3	525.8	524.5	511.7	494.9	479.4	480.4
32.5°	797.1	561.7	460.0	477.8	494.9	499.5	490.6	473.9	449.9	429.8	426.8
35°	784.6	527.8	444.6	462.3	474.5	472.2	463.7	442.0	420.3	402.5	399.5
37.5°	782.6	498.8	429.8	444.9	451.8	448.5	438.0	419.6	411.7	398.2	396.6
40°	793.2	478.5	414.7	426.5	429.8	427.2	415.7	405.1	412.4	409.1	409.1
42.5°	821.8	467.6	401.2	408.1	410.7	412.7	404.5	395.6	404.5	389.3	384.4
45°	867.1	467.9	389.0	390.0	397.9	404.8	399.2	386.1	381.5	351.2	345.3
47.5°	933.9	479.1	379.2	372.9	387.0	398.6	390.7	371.6	351.2	331.1	327.5
50°	1011.8	499.2	370.3	355.1	372.6	390.7	384.7	362.4	341.3	329.2	326.9
52.5°	1098.3	524.5	359.4	335.4	354.8	387.0	386.1	361.1	332.1	323.9	321.9
55°	1205.2	549.5	345.9	312.4	339.0	384.1	382.4	350.2	330.2	324.2	323.6
57.5°	1329.5	585.7	326.5	289.0	320.9	371.9	368.3	343.6	323.6	319.3	319.0
60°	1529.8	641.9	298.9	267.7	302.5	350.5	355.1	332.5	313.1	312.1	311.7
62.5°	1793.2	720.8	270.3	245.6	281.2	322.9	336.1	317.3	301.9	306.8	307.5
65°	2156.8	787.2	240.7	226.9	257.5	296.3	318.0	303.2	289.4	298.9	298.9
67.5°	2393.9	788.6	213.7	207.5	233.5	273.9	298.9	286.4	273.3	289.4	290.0
70°	2344.6	690.9	191.4	187.1	210.1	249.9	277.9	268.0	252.9	267.3	262.1
71°	2265.0	636.6	182.5	179.2	200.9	238.4	268.0	259.8	244.7	254.2	251.2
72.5°	2138.1	552.8	168.0	168.7	187.1	223.9	254.2	245.6	230.5	235.8	234.8
75°	1807.3	482.7	143.7	146.7	160.8	199.3	226.6	220.0	204.5	204.5	203.6
77.5°	1129.9	337.4	119.4	121.0	136.5	170.7	194.7	189.1	174.3	169.4	168.0
80°	421.6	174.3	93.4	95.4	104.9	134.5	161.1	155.9	140.7	135.2	129.9
82.5°	159.5	87.5	68.7	67.1	77.3	102.6	126.3	120.0	108.2	94.7	90.8
85°	60.2	43.4	42.1	40.8	45.4	60.8	78.3	76.9	64.5	54.9	53.9
87.5°	15.8	14.1	16.4	12.2	12.8	11.5	11.8	4.9	2.3	1.0	0.7
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)