

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: P945222

Luminaire Tested: **GALN-SB1B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5322 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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



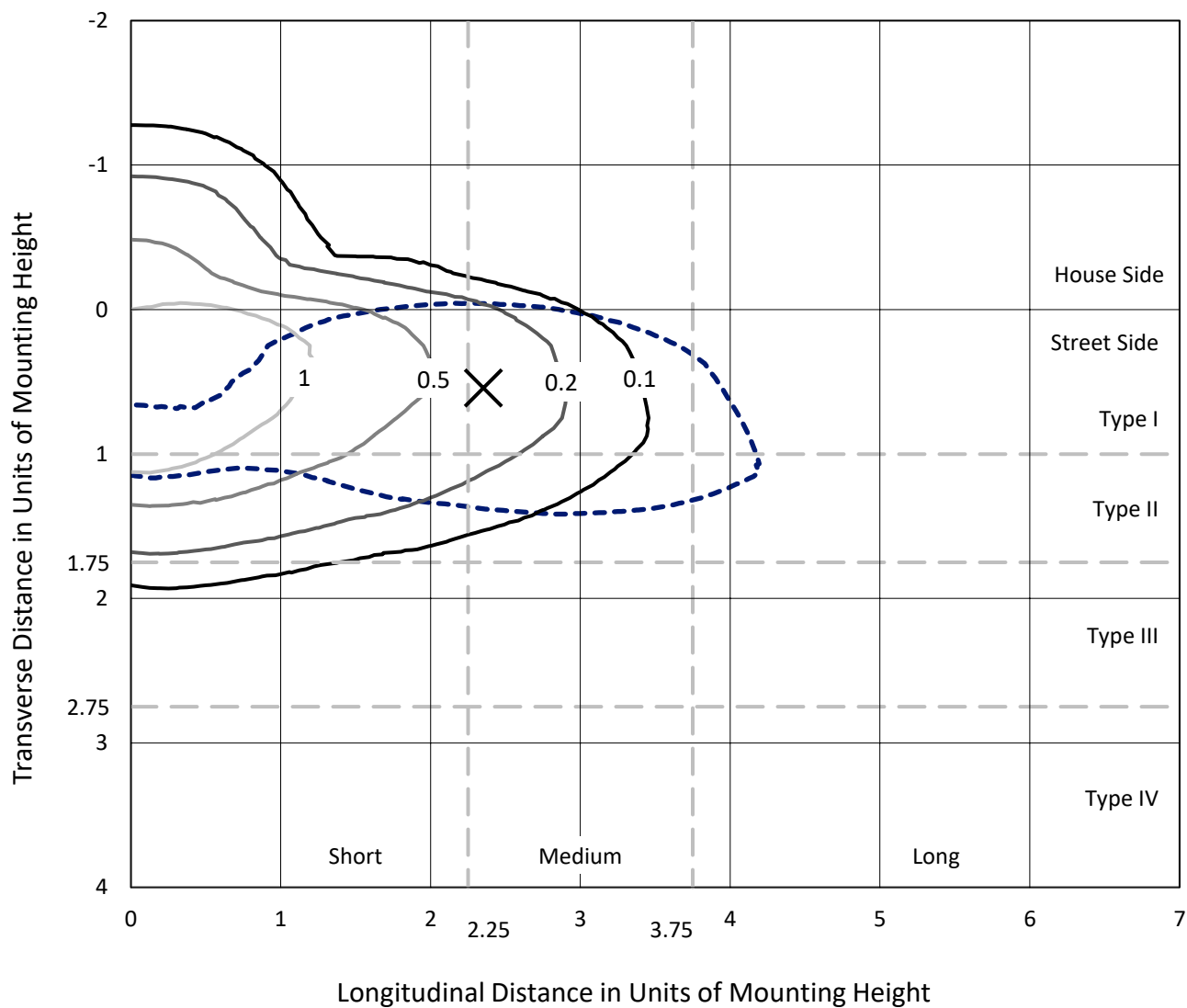
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Iso-Footcandle Lines of Horizontal Illumination

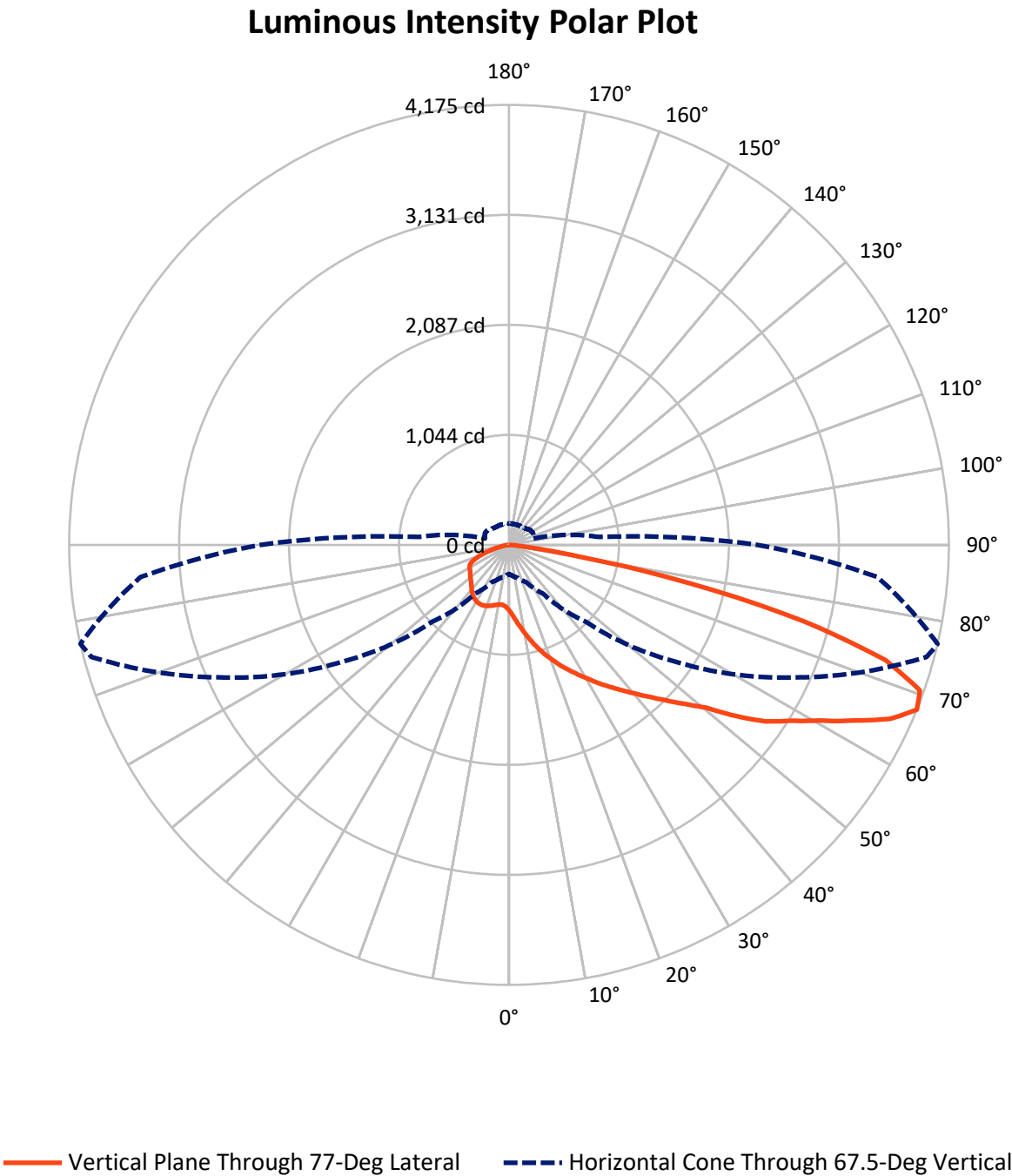
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1006.7	0.0	1006.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4315.3	0.0	4315.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	5322.0	0.0	5322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.3
10°-20°	240.5	4.5
20°-30°	454.0	8.5
30°-40°	731.4	13.7
40°-50°	1000.4	18.8
50°-60°	1128.5	21.2
60°-70°	1053.3	19.8
70°-80°	577.4	10.8
80°-90°	69.6	1.3
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°	5322.0	100.0
0°-180°	5322.0	100.0

Coefficient of Utilization



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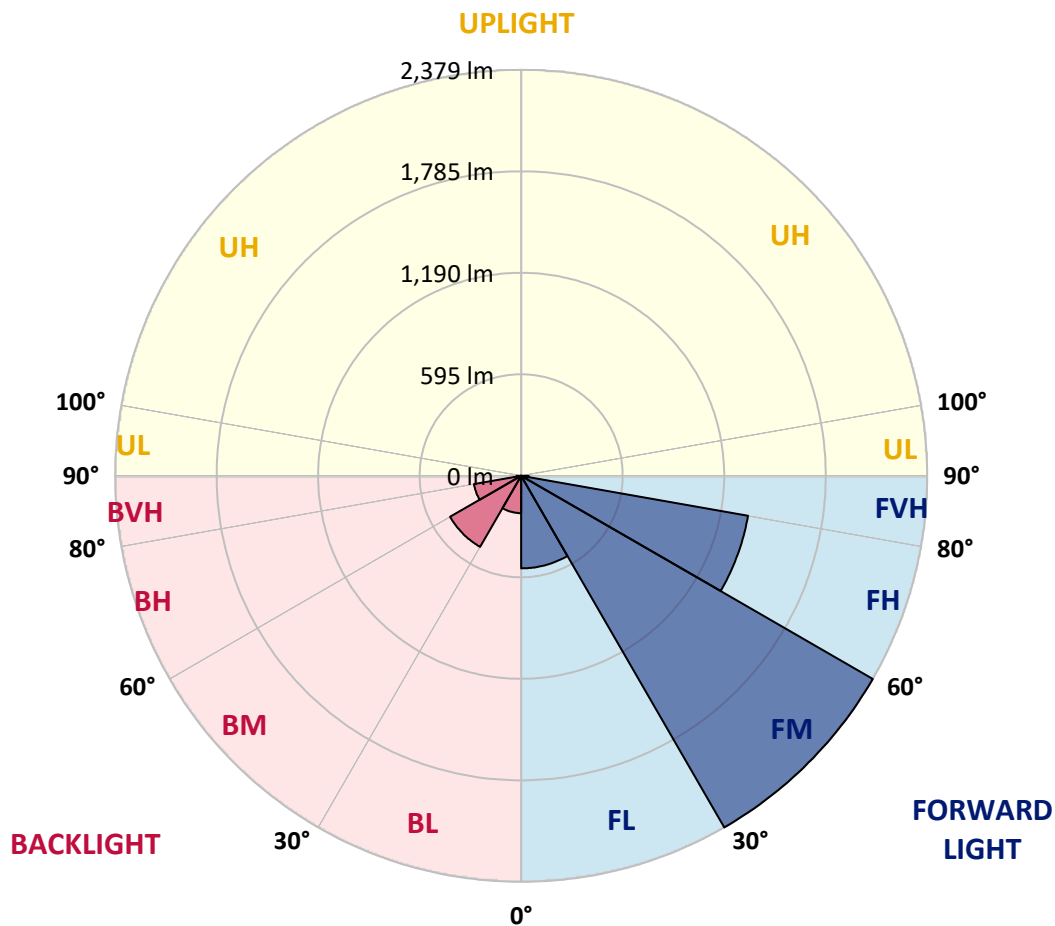
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	542.5	10.2			
FM	(30°-60°)	2379.4	44.7			
FH	(60°-80°)	1349.8	25.4			G1/1800
FVH	(80°-90°)	43.6	0.8			G1/100
BL	(0°-30°)	218.9	4.1	B1/500		
BM	(30°-60°)	480.9	9.0	B1/1000		
BH	(60°-80°)	280.9	5.3	B1/500		G1/500
BVH	(80°-90°)	26.1	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4
2.5°	781.8	787.3	780.5	780.5	757.4	745.3	722.2	704.7	673.1	667.6	646.7
5°	924.2	931.0	921.4	917.3	890.1	865.1	826.4	788.2	731.9	726.1	676.9
7.5°	1034.3	1043.1	1034.6	1030.2	1006.0	978.0	932.7	879.4	800.0	788.7	717.6
10°	1124.1	1125.5	1122.8	1124.4	1105.5	1082.4	1036.0	973.9	874.7	859.3	766.7
12.5°	1175.0	1181.3	1186.8	1196.7	1193.4	1179.1	1137.3	1063.2	953.8	934.0	820.3
15°	1198.9	1209.9	1222.2	1245.0	1263.4	1267.0	1235.1	1159.0	1034.3	1010.4	874.4
17.5°	1207.4	1217.8	1237.3	1270.3	1309.9	1336.5	1322.2	1252.2	1114.0	1086.5	931.3
20°	1250.5	1253.5	1265.4	1296.7	1339.5	1383.8	1394.5	1341.7	1192.8	1161.8	990.1
22.5°	1342.8	1336.8	1340.1	1354.4	1385.1	1428.0	1452.4	1420.8	1273.9	1238.2	1049.4
25°	1495.3	1477.7	1460.1	1443.6	1459.3	1483.5	1511.2	1500.0	1358.8	1313.4	1109.3
27.5°	1687.9	1666.4	1627.7	1573.6	1554.6	1563.2	1575.5	1573.3	1437.3	1391.5	1171.1
30°	1877.4	1852.4	1806.3	1728.0	1678.0	1655.5	1646.1	1639.8	1522.8	1473.9	1233.5
32.5°	2028.8	2009.0	1963.7	1876.1	1803.5	1765.1	1734.0	1711.5	1612.1	1563.2	1299.4
35°	2161.2	2142.8	2090.9	1995.3	1916.4	1875.5	1834.8	1786.8	1704.9	1655.5	1370.3
37.5°	2282.1	2263.7	2192.5	2093.1	2013.7	1985.4	1949.1	1867.5	1798.0	1751.3	1445.3
40°	2358.5	2354.3	2287.9	2175.2	2092.8	2078.8	2066.7	1961.2	1901.3	1857.9	1527.7
42.5°	2378.0	2387.0	2334.3	2241.7	2163.1	2151.9	2180.2	2067.3	2017.3	1975.8	1621.1
45°	2331.0	2357.1	2322.5	2259.6	2213.1	2207.1	2280.7	2183.2	2145.6	2107.6	1733.8
47.5°	2212.0	2256.3	2242.0	2233.2	2226.6	2252.7	2369.2	2306.3	2290.9	2257.9	1862.3
50°	1971.9	2055.7	2080.7	2136.2	2199.9	2288.1	2449.7	2440.6	2460.7	2427.4	2018.9
52.5°	1556.8	1672.2	1817.3	1956.3	2118.1	2276.3	2538.1	2633.5	2718.1	2699.9	2267.8
55°	1285.1	1337.1	1448.6	1703.5	1959.3	2226.6	2578.0	2789.2	2973.6	2957.3	2456.5
57.5°	1076.3	1122.8	1191.5	1404.4	1719.2	2113.7	2602.7	2884.3	3148.6	3146.9	2642.8
60°	852.5	901.6	972.0	1122.8	1438.7	1918.6	2597.2	2992.5	3371.9	3385.6	2870.0
62.5°	599.7	653.8	731.9	872.5	1152.2	1665.9	2485.1	3070.8	3634.8	3672.2	3143.3
65°	394.2	429.9	488.7	610.2	858.5	1340.9	2271.1	3081.0	3916.1	3979.3	3399.9
67.5°	276.4	290.1	324.7	390.7	565.9	1028.3	1930.2	2975.8	4103.8	4174.9	3511.2
70°	215.7	222.5	240.1	266.5	355.5	691.5	1479.1	2702.1	4063.6	4137.8	3395.0
72.5°	186.3	192.9	199.4	202.7	238.5	426.9	1001.9	2259.3	3685.9	3736.2	2951.9
75°	169.0	170.6	176.1	175.0	181.9	276.9	578.3	1646.1	2908.2	2890.9	2179.1
77.5°	142.0	144.2	153.3	151.9	161.5	189.3	300.3	1062.3	1885.4	1767.8	1212.9
80°	120.3	121.4	131.3	129.7	140.4	137.1	153.3	541.5	799.7	677.5	349.7
82.5°	41.8	51.6	100.3	103.3	107.1	83.0	88.5	220.9	244.2	187.1	73.3
85°	20.3	21.7	51.1	72.5	72.3	41.8	43.1	78.8	76.9	60.4	24.4
87.5°	3.3	4.1	6.0	28.3	22.5	11.0	14.8	15.4	15.9	13.7	5.5
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°	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4
2.5°	631.3	617.6	588.7	562.1	541.2	521.1	509.9	500.3	494.8	493.7	493.7
5°	648.3	620.0	567.6	523.3	494.5	473.1	461.8	454.7	451.1	448.9	448.6
7.5°	672.8	631.3	556.6	506.3	476.1	460.7	454.9	453.8	453.6	453.8	454.7
10°	706.6	649.7	555.5	502.2	476.9	468.4	468.1	468.4	469.5	469.8	470.0
12.5°	743.1	668.7	559.9	505.8	487.4	482.7	481.9	481.6	482.4	483.0	483.2
15°	782.9	693.7	567.3	513.4	498.9	493.9	493.1	491.5	491.2	490.9	490.6
17.5°	823.9	718.4	575.5	521.7	506.3	499.4	496.4	492.6	489.5	488.7	489.5
20°	865.4	742.8	581.3	525.8	506.9	497.2	491.2	484.6	479.4	476.4	477.5
22.5°	909.6	768.4	584.9	524.7	501.9	488.7	477.7	470.0	462.1	456.9	457.1
25°	952.7	790.6	584.6	518.9	492.3	475.5	461.5	451.6	440.6	435.2	435.2
27.5°	994.2	810.7	577.7	508.8	478.6	459.9	443.1	431.3	420.6	415.4	415.1
30°	1037.1	827.5	567.0	493.9	462.4	441.7	423.3	413.2	403.6	398.6	398.3
32.5°	1079.6	842.8	551.9	475.5	443.7	423.9	405.8	396.4	390.7	390.7	390.9
35°	1124.7	853.6	531.9	454.1	423.9	404.9	390.7	385.2	384.6	381.3	380.5
37.5°	1172.2	860.4	507.4	432.1	404.4	386.5	382.1	375.5	370.0	362.9	361.8
40°	1222.2	867.3	478.0	409.3	383.8	373.9	372.0	363.2	347.5	329.9	327.5
42.5°	1282.9	872.0	447.5	386.5	362.1	358.8	361.5	346.4	321.4	308.2	308.5
45°	1353.3	879.6	419.5	364.0	339.8	339.8	351.4	331.6	311.0	302.7	304.1
47.5°	1444.5	897.5	393.4	339.3	319.2	324.7	328.8	313.7	302.2	292.0	291.8
50°	1576.3	940.4	366.5	314.3	303.6	314.6	308.8	300.0	286.5	278.3	277.5
52.5°	1740.1	965.6	342.6	291.8	290.1	301.1	292.9	284.6	274.4	263.5	261.3
55°	1851.6	970.3	322.5	275.3	281.0	279.9	276.9	269.5	264.0	249.4	249.7
57.5°	1976.3	979.6	306.0	265.4	275.3	263.2	262.1	255.8	248.6	238.7	235.4
60°	2125.5	994.2	291.8	261.5	270.3	252.2	246.7	244.2	237.1	232.1	233.5
62.5°	2288.1	1007.4	277.2	262.1	264.6	241.5	233.2	232.4	228.0	226.4	226.4
65°	2399.1	971.4	259.1	261.5	255.5	230.5	220.0	219.8	216.2	215.7	215.4
67.5°	2360.4	857.4	234.6	253.8	246.1	219.5	208.0	206.9	202.2	202.5	202.5
70°	2166.4	694.8	200.8	234.9	234.6	209.6	195.3	191.8	185.4	186.5	187.6
72.5°	1802.7	514.8	155.5	203.3	216.2	200.5	180.8	175.0	167.0	168.1	167.9
75°	1301.9	350.0	113.2	154.7	188.2	189.8	166.5	156.6	147.0	148.6	149.2
77.5°	666.2	198.3	83.2	106.6	147.8	172.5	153.6	140.4	138.2	153.6	151.4
80°	217.3	99.4	57.7	74.7	97.0	141.2	134.6	119.5	119.0	122.5	105.2
82.5°	64.8	42.0	37.1	49.2	53.6	108.2	116.2	90.4	77.7	81.9	84.6
85°	22.3	20.3	21.2	24.4	25.5	63.5	81.3	59.9	56.6	62.4	61.5
87.5°	5.2	7.1	6.0	5.5	5.5	15.4	31.6	25.0	34.6	23.1	22.3
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)