

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: P944878

Luminaire Tested: **GALN-SB1A-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-730-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4460 lumens
Efficiency: N/A
Efficacy: 144.3 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): 30.9
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

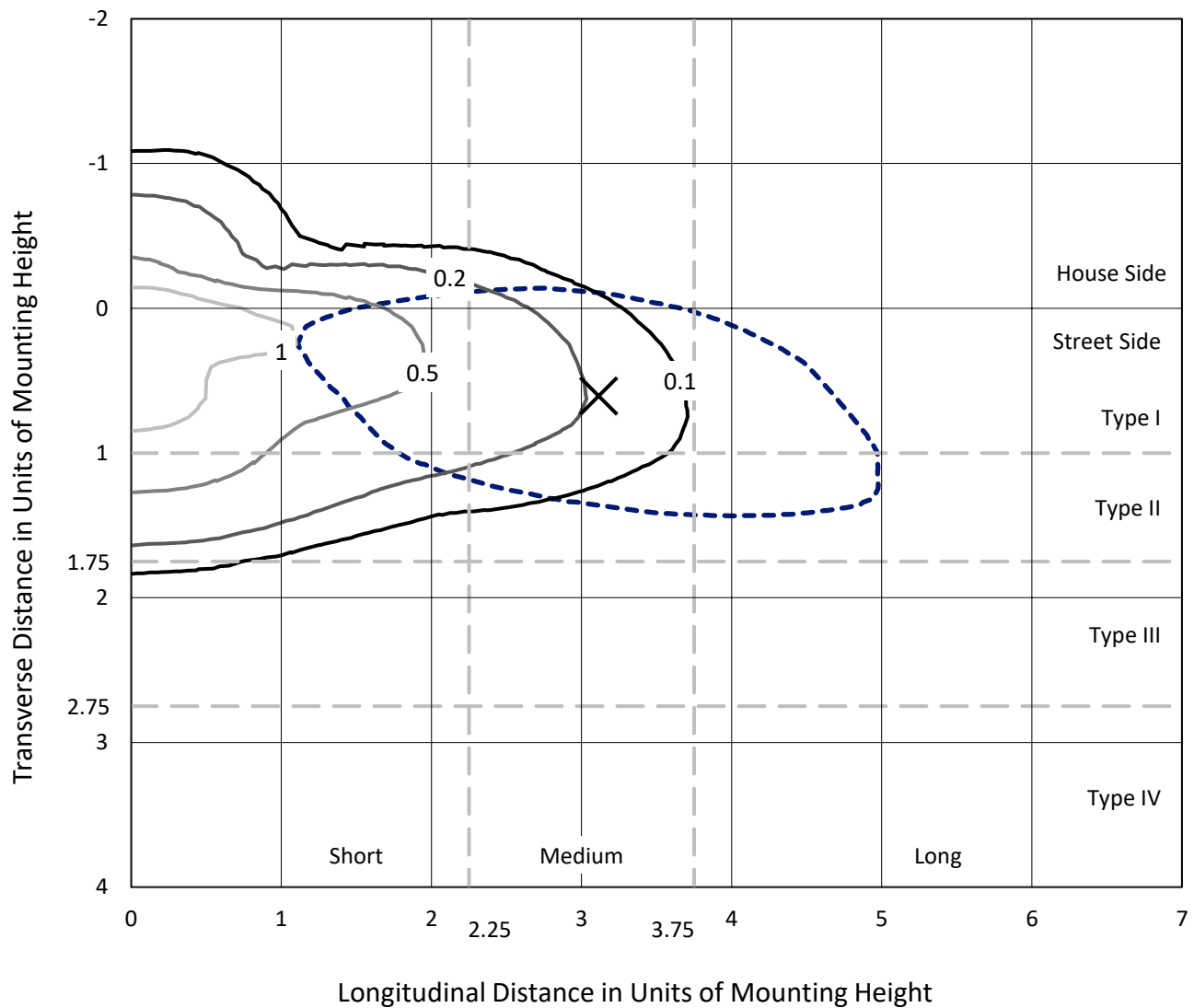


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Iso-Footcandle Lines of Horizontal Illumination

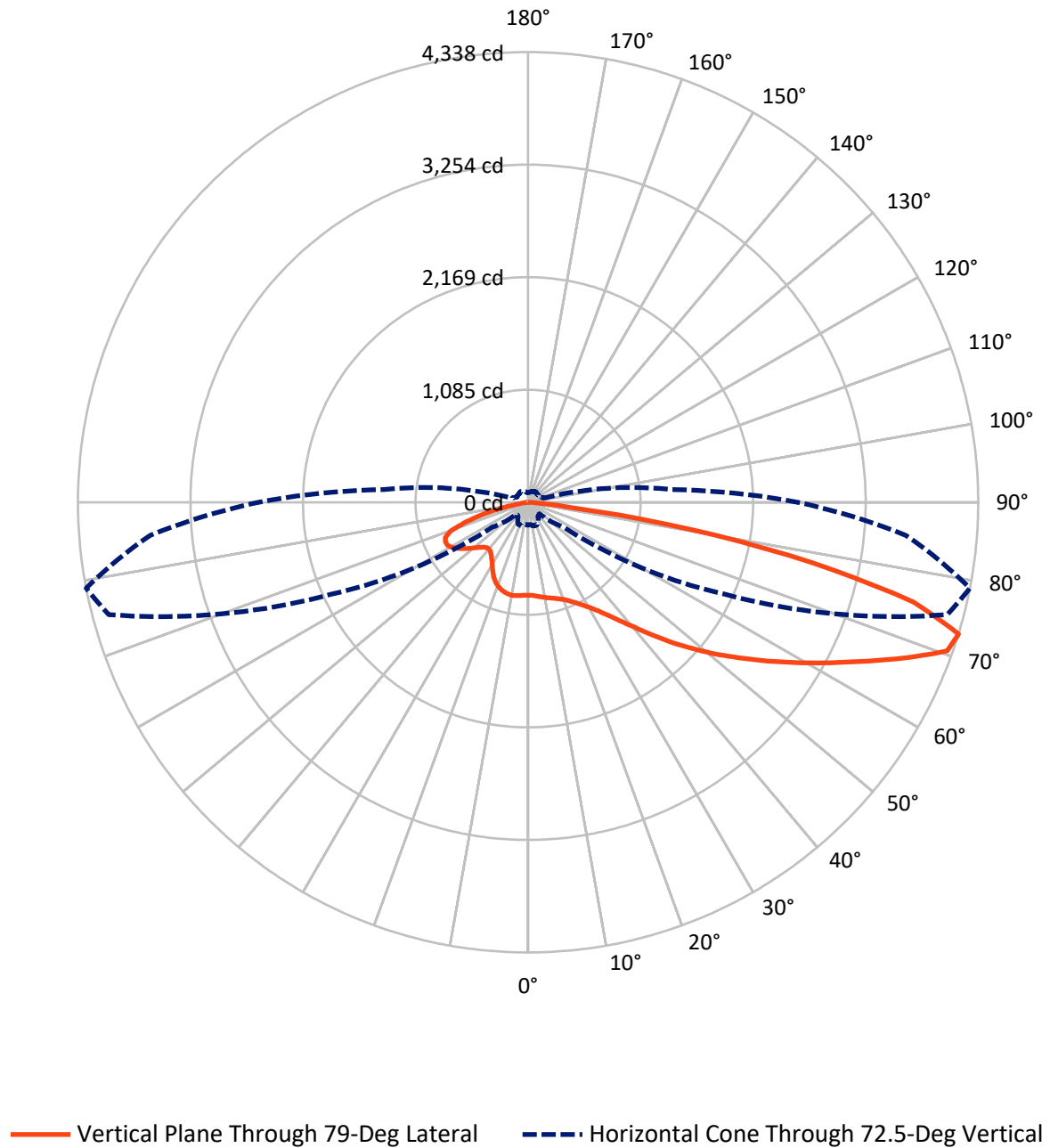
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	981.4	0.0	981.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3478.5	0.0	3478.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	4460.0	0.0	4460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.8
10°-20°	212.5	4.8
20°-30°	342.8	7.7
30°-40°	514.6	11.5
40°-50°	729.9	16.4
50°-60°	921.8	20.7
60°-70°	936.2	21.0
70°-80°	638.1	14.3
80°-90°	82.8	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°	4460.0	100.0
0°-180°	4460.0	100.0

Coefficient of Utilization



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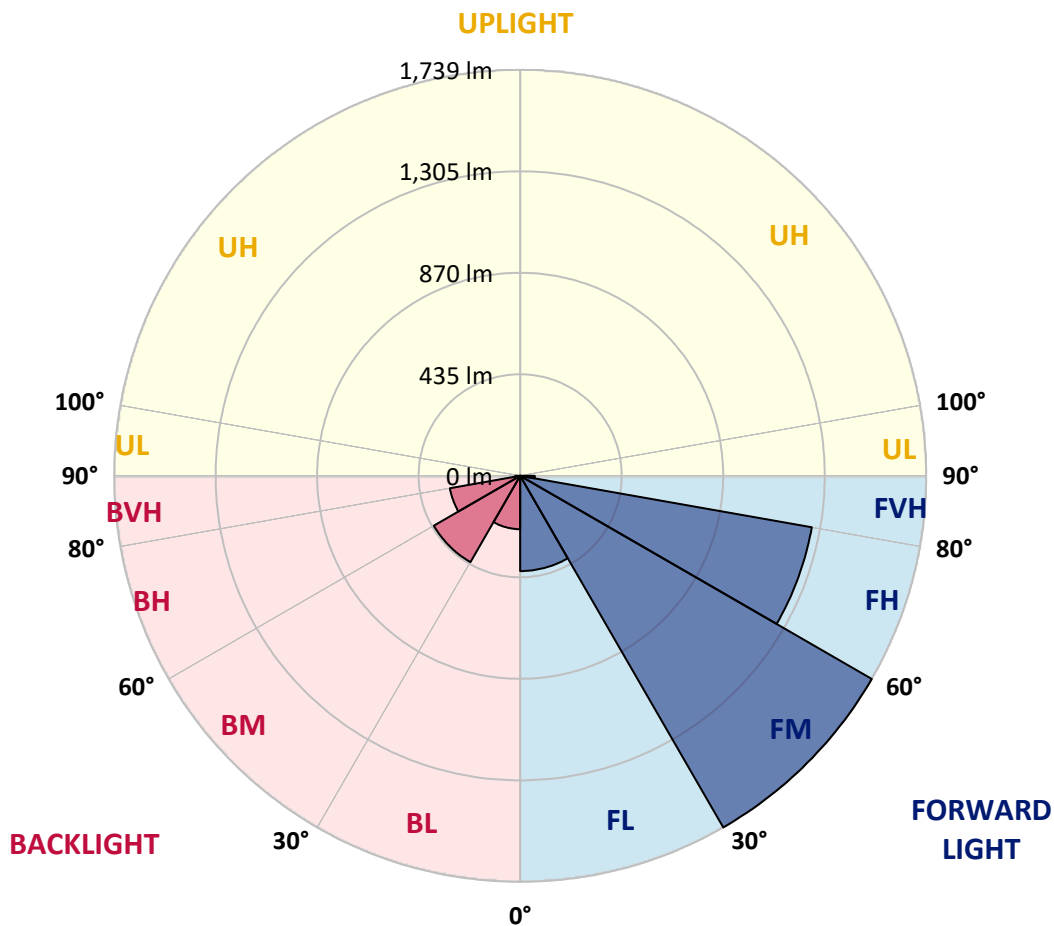
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.0	9.1			
FM	(30°-60°)	1739.5	39.0			
FH	(60°-80°)	1268.7	28.4			G1/1800
FVH	(80°-90°)	62.4	1.4			G1/100
BL	(0°-30°)	228.6	5.1	B1/500		
BM	(30°-60°)	426.8	9.6	B1/1000		
BH	(60°-80°)	305.6	6.9	B1/500		G1/500
BVH	(80°-90°)	20.4	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°	79°	85°
0°	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3
2.5°	895.8	891.5	894.1	893.2	894.4	895.8	896.2	897.0	899.3	899.1	898.8
5°	893.9	889.6	893.2	892.0	895.1	898.4	901.2	903.8	907.6	909.2	906.9
7.5°	889.9	887.0	890.6	894.1	899.8	904.7	908.7	914.6	920.1	921.0	922.7
10°	866.5	864.4	872.7	881.9	897.4	910.9	919.6	926.4	932.3	933.3	935.6
12.5°	842.2	839.6	848.8	861.3	886.6	910.9	929.3	938.2	943.4	946.5	950.0
15°	838.2	836.1	841.3	852.1	873.1	904.5	935.9	952.4	956.9	960.4	961.8
17.5°	857.6	853.5	855.7	859.4	871.7	898.6	941.1	968.4	975.3	979.1	979.1
20°	902.4	896.7	893.4	885.9	883.7	899.5	940.6	987.8	996.7	1001.5	1002.6
22.5°	962.1	958.3	951.2	932.1	911.3	911.1	949.6	1012.6	1029.3	1033.8	1031.0
25°	1034.3	1028.6	1019.6	993.7	953.8	934.0	964.7	1044.2	1072.2	1073.4	1065.2
27.5°	1117.3	1108.8	1096.5	1062.3	1008.5	969.9	987.8	1080.5	1121.5	1121.1	1104.1
30°	1204.8	1196.3	1183.4	1141.8	1074.1	1018.2	1019.9	1119.7	1180.1	1177.5	1148.4
32.5°	1268.8	1262.4	1259.8	1227.7	1149.6	1075.3	1056.7	1163.1	1252.2	1249.9	1209.3
35°	1317.8	1309.6	1312.6	1296.4	1232.0	1139.2	1101.7	1214.7	1340.0	1339.8	1289.3
37.5°	1366.4	1359.1	1361.7	1350.9	1308.2	1220.4	1156.7	1278.0	1448.8	1454.0	1386.0
40°	1410.8	1403.0	1413.4	1403.2	1367.4	1306.7	1219.2	1349.4	1574.7	1584.7	1503.0
42.5°	1437.4	1431.3	1448.5	1448.8	1418.8	1379.6	1287.9	1428.2	1720.5	1742.7	1646.9
45°	1446.6	1444.5	1470.5	1475.9	1464.3	1421.9	1349.7	1514.1	1877.7	1917.3	1810.9
47.5°	1436.7	1432.7	1468.6	1488.6	1497.8	1441.7	1400.9	1607.1	2038.1	2096.1	1989.7
50°	1386.7	1378.9	1432.2	1474.5	1507.3	1454.7	1452.5	1714.4	2220.4	2283.9	2169.5
52.5°	1296.8	1290.9	1351.6	1424.9	1486.5	1461.0	1510.6	1831.7	2393.6	2475.7	2353.7
55°	1181.9	1174.2	1240.9	1336.7	1434.8	1458.9	1568.6	1962.8	2597.9	2681.2	2544.1
57.5°	999.8	984.2	1068.7	1181.9	1350.6	1456.3	1629.0	2093.3	2805.5	2905.3	2747.2
60°	734.2	711.1	814.6	948.9	1186.0	1431.1	1703.8	2239.6	3054.6	3144.5	2969.0
62.5°	427.5	414.0	481.7	607.0	893.9	1282.4	1745.8	2409.6	3299.5	3393.9	3187.0
65°	331.9	328.2	334.1	343.7	497.5	960.2	1616.3	2575.5	3610.9	3677.0	3414.2
67.5°	303.6	300.8	303.4	285.2	252.4	534.8	1278.7	2617.5	3944.5	3984.6	3613.1
70°	269.9	266.6	275.1	259.5	198.6	243.2	826.2	2465.1	4209.9	4285.2	3764.3
72.5°	219.9	216.1	235.9	228.8	167.3	156.2	415.0	2103.0	4182.1	4338.3	3656.0
75°	168.9	166.8	190.4	196.3	136.4	122.9	199.1	1563.2	3680.3	3837.7	3150.9
77.5°	131.2	129.5	141.5	163.0	109.9	95.3	122.4	991.6	2773.4	2801.0	2171.4
80°	98.4	93.7	104.7	126.2	85.6	69.6	83.0	578.2	1753.1	1589.1	945.1
82.5°	61.6	59.2	68.4	84.2	60.4	47.9	54.0	319.4	702.6	413.8	182.4
85°	35.2	34.2	37.3	48.1	32.8	27.6	30.9	141.1	128.3	88.2	55.0
87.5°	14.2	13.7	17.0	21.5	12.0	10.1	10.9	34.0	28.3	26.2	18.2
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°	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3	895.3
2.5°	897.9	897.9	894.6	889.4	883.5	879.7	873.6	871.9	865.6	863.7	866.8
5°	908.7	906.9	896.7	882.1	862.0	843.6	823.3	810.6	792.7	786.3	791.0
7.5°	922.4	917.2	899.8	867.7	825.7	784.4	741.5	708.9	677.8	666.7	668.1
10°	934.9	927.6	897.9	841.7	769.1	697.6	629.2	581.3	545.0	530.1	533.4
12.5°	947.4	934.0	885.4	798.6	688.6	591.7	518.8	481.5	459.1	441.2	447.1
15°	959.2	940.4	866.0	740.8	600.4	502.0	448.2	418.5	400.6	388.8	390.9
17.5°	972.9	945.8	837.0	667.4	516.4	440.0	396.1	378.2	374.6	373.2	374.2
20°	992.0	950.7	798.8	585.3	454.6	390.4	367.8	366.1	365.9	365.2	367.6
22.5°	1012.6	956.6	748.3	510.8	402.0	359.5	355.5	352.2	350.1	349.9	352.5
25°	1036.9	958.5	685.1	449.7	357.2	344.9	340.2	335.2	333.8	333.8	335.2
27.5°	1060.4	952.2	611.5	396.6	331.9	331.5	325.3	323.7	323.4	324.1	326.0
30°	1084.0	940.1	538.4	347.5	317.3	317.3	315.2	316.4	317.3	319.7	321.3
32.5°	1115.9	927.4	477.3	311.2	304.6	302.2	304.3	306.7	307.6	310.7	313.3
35°	1162.6	918.4	428.7	291.4	291.4	288.3	289.5	289.0	286.9	285.5	288.8
37.5°	1224.4	918.0	388.6	282.2	280.3	279.8	280.0	277.0	268.7	258.8	259.0
40°	1298.7	930.7	357.6	275.8	274.4	277.2	275.8	267.5	244.9	227.7	227.2
42.5°	1398.5	967.0	337.8	268.0	272.2	275.8	270.1	241.6	226.2	214.7	214.2
45°	1516.0	1026.0	327.7	259.7	268.2	272.5	245.1	232.6	220.3	206.4	205.5
47.5°	1649.1	1100.3	325.3	252.0	259.3	261.9	234.5	228.8	214.9	199.8	198.6
50°	1793.9	1188.3	331.7	242.8	246.3	237.3	231.0	225.8	211.4	196.5	194.9
52.5°	1943.7	1285.3	344.4	230.3	233.3	223.4	229.5	225.1	209.3	189.2	187.8
55°	2090.9	1382.9	356.7	215.6	220.1	210.9	225.5	222.2	199.6	176.9	175.8
57.5°	2240.5	1480.1	368.7	202.7	207.4	198.9	219.2	214.7	188.7	165.6	165.1
60°	2396.0	1574.5	374.4	190.1	193.5	187.8	209.5	201.7	176.5	154.1	153.3
62.5°	2541.5	1653.1	365.2	177.6	179.8	177.4	196.8	186.4	164.2	141.1	140.8
65°	2687.6	1699.8	336.9	165.4	165.8	164.7	178.8	169.9	149.8	129.8	128.3
67.5°	2819.9	1726.0	291.8	152.2	151.0	150.5	162.1	151.9	135.9	118.4	117.0
70°	2848.0	1659.4	222.9	136.6	136.6	135.4	143.7	133.3	120.6	106.4	105.9
72.5°	2601.2	1395.9	158.3	118.9	120.8	118.4	125.3	116.5	105.0	95.5	92.7
75°	2097.5	1023.6	115.1	100.7	104.0	100.0	106.4	100.3	90.4	90.1	81.2
77.5°	1441.2	633.0	83.5	83.0	85.4	80.2	87.5	84.2	75.3	71.2	66.8
80°	615.0	252.4	60.9	64.2	64.2	59.5	67.9	68.9	61.1	59.2	59.2
82.5°	122.4	71.7	42.7	44.1	41.5	40.1	48.1	53.3	73.6	81.9	82.1
85°	36.8	26.4	25.7	24.1	21.2	21.5	28.3	53.6	66.1	37.7	32.6
87.5°	10.1	6.6	6.8	5.4	4.5	5.9	9.7	40.6	22.2	9.4	8.0
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)