

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: P450603

Luminaire Tested: **GALN-SA1B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4567 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



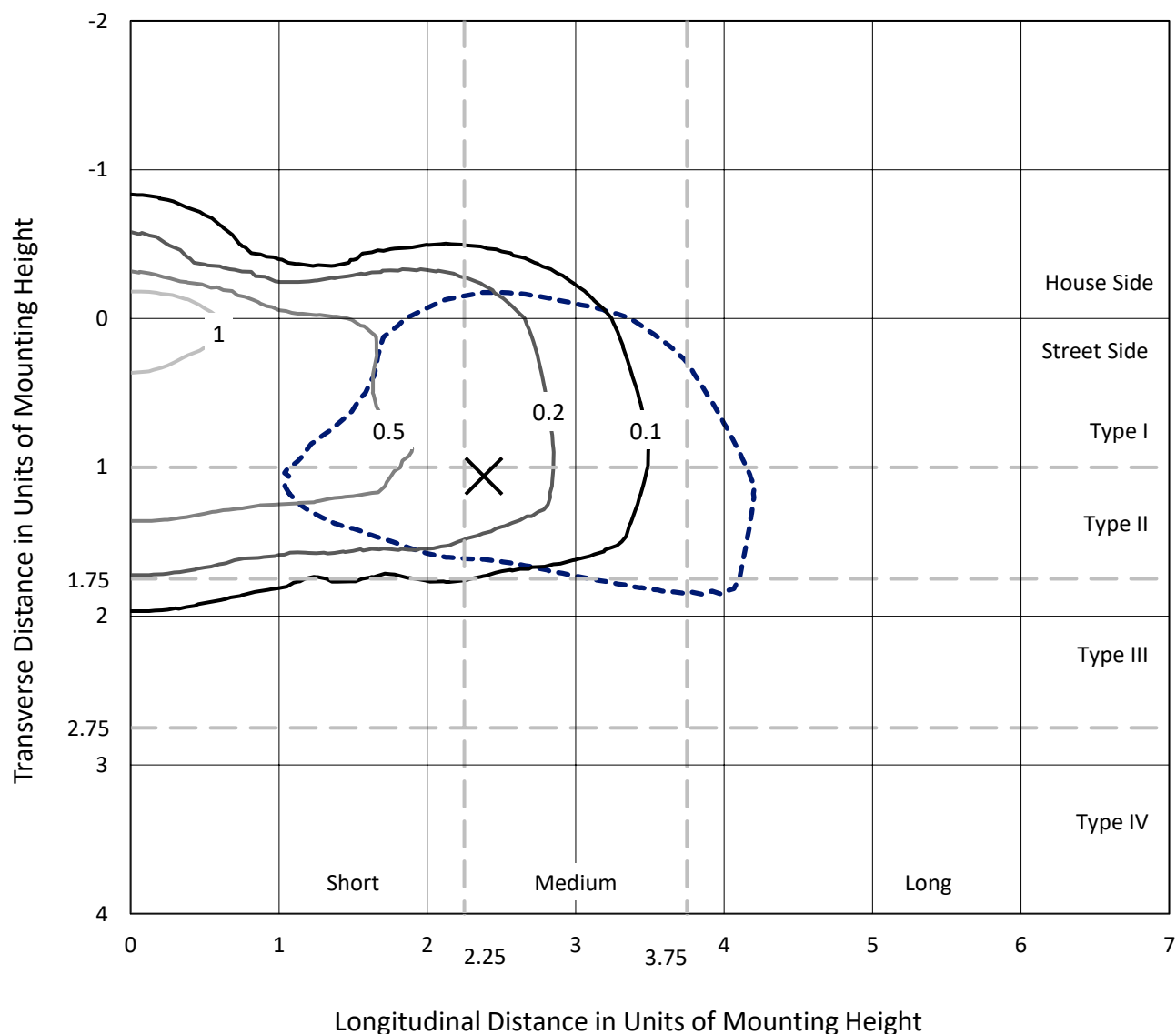
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

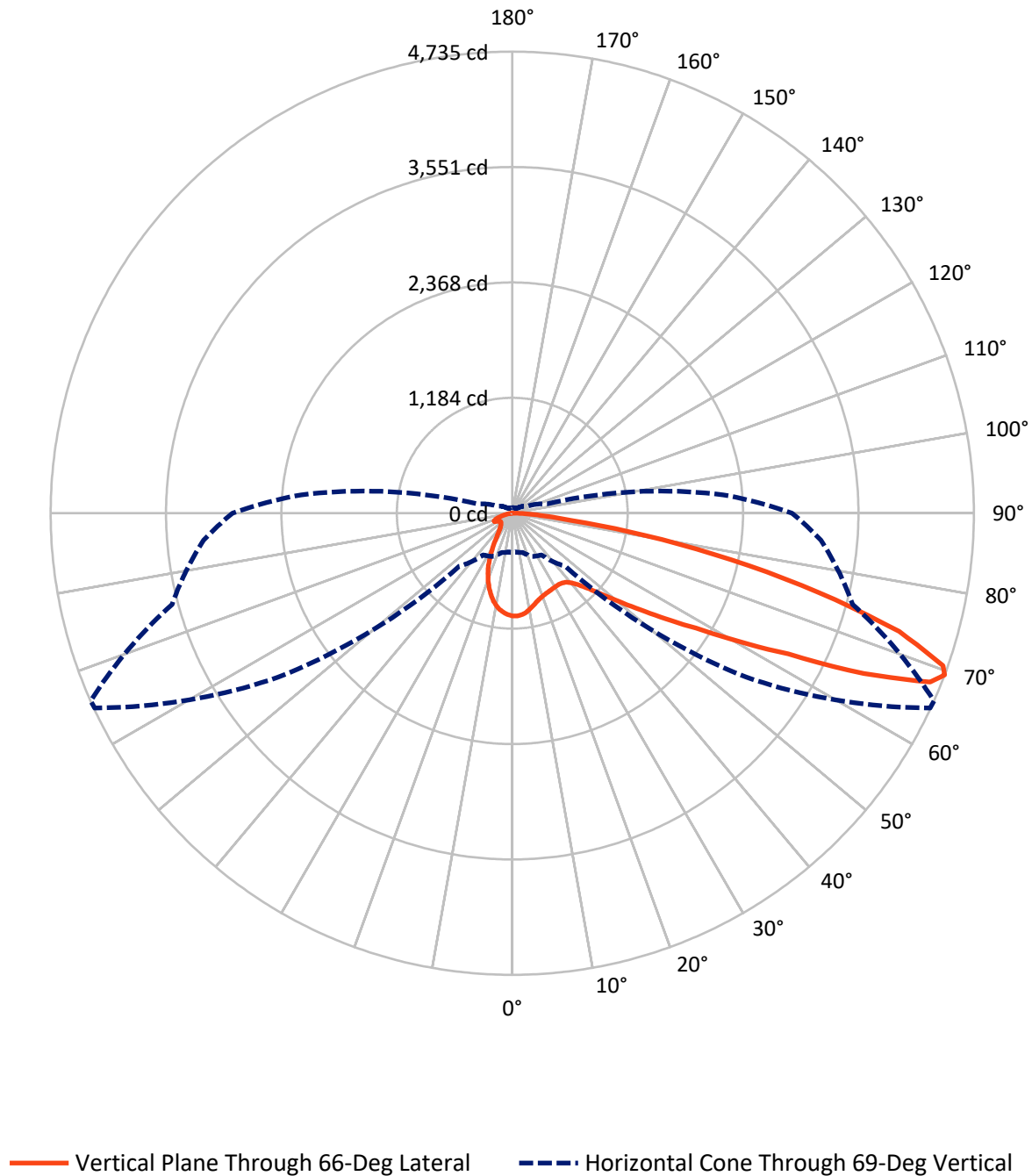


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.9	0.0	858.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3708.1	0.0	3708.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	4567.0	0.0	4567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	2.0
10°-20°	217.2	4.8
20°-30°	295.7	6.5
30°-40°	397.4	8.7
40°-50°	593.4	13.0
50°-60°	943.9	20.7
60°-70°	1160.9	25.4
70°-80°	755.3	16.5
80°-90°	111.5	2.4
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°	4567.0	100.0
0°-180°	4567.0	100.0

Coefficient of Utilization



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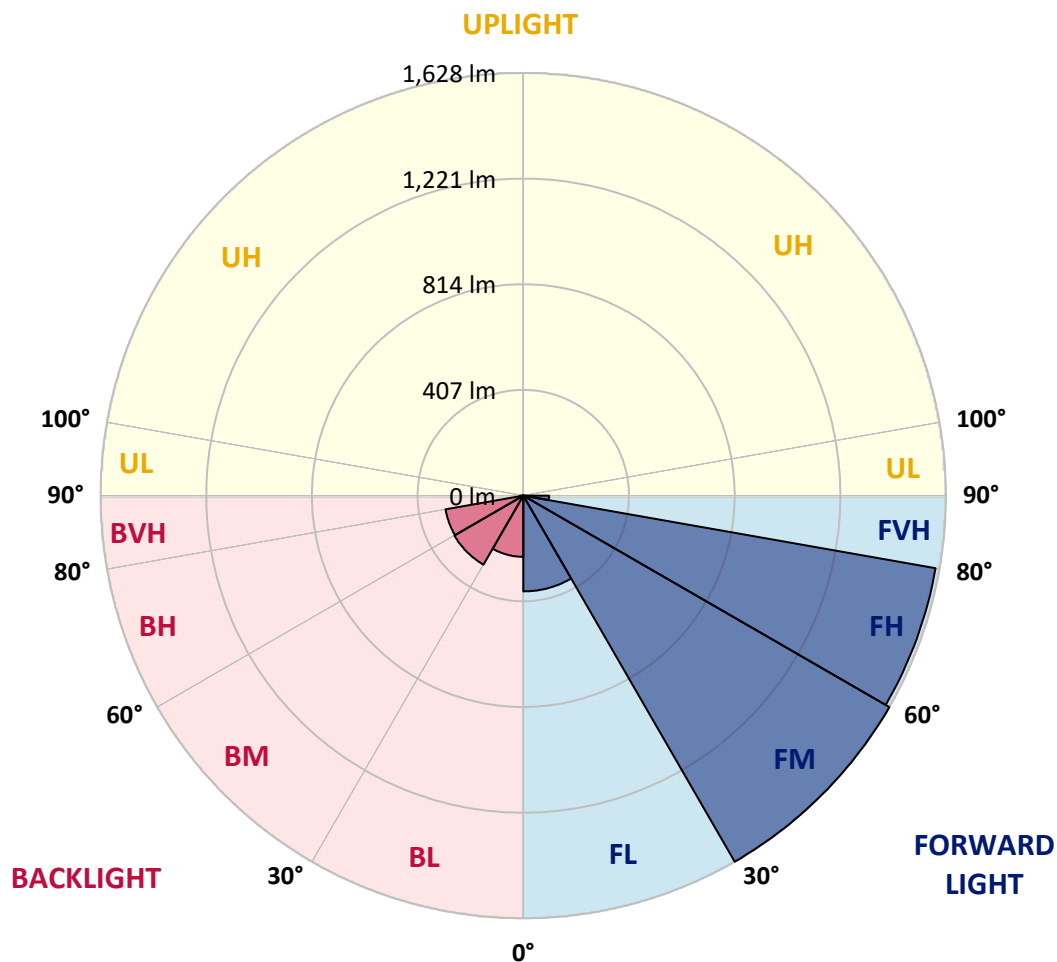
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.8	8.1			
FM	(30°-60°)	1628.0	35.6			
FH	(60°-80°)	1612.2	35.3			G1/1800
FVH	(80°-90°)	99.2	2.2			G1/100
BL	(0°-30°)	235.8	5.2	B1/500		
BM	(30°-60°)	306.7	6.7	B1/1000		
BH	(60°-80°)	304.1	6.7	B1/500		G1/500
BVH	(80°-90°)	12.4	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1017.7	1021.8	1026.3	1031.4	1041.0	1046.3	1050.1	1054.4	1054.9	1057.2	1055.4
5°	942.6	947.4	954.2	963.9	978.3	1000.8	1024.0	1043.0	1045.3	1055.9	1058.9
7.5°	879.9	882.7	888.2	903.7	924.1	949.2	983.1	1021.5	1027.1	1052.4	1061.2
10°	828.8	831.6	838.2	854.1	874.3	905.7	942.9	993.4	998.0	1041.5	1061.7
12.5°	790.6	793.1	800.2	815.9	839.2	868.5	909.5	963.1	969.7	1027.1	1056.9
15°	761.5	766.3	772.1	785.0	809.6	837.9	877.6	935.3	940.6	1011.9	1053.6
17.5°	749.1	751.4	755.5	767.3	785.3	813.1	853.1	913.5	919.8	1001.3	1052.9
20°	749.6	751.9	752.7	759.2	772.1	796.2	835.6	896.3	903.9	991.9	1054.1
22.5°	766.8	767.1	764.3	762.0	767.1	787.1	823.2	883.4	892.3	987.9	1055.2
25°	793.4	797.9	793.9	783.3	773.9	783.5	818.4	876.3	884.7	982.1	1053.9
27.5°	836.4	837.1	833.9	819.4	795.2	788.1	816.4	871.0	878.1	977.8	1047.6
30°	894.0	891.8	888.7	872.8	834.6	805.5	820.7	866.2	873.6	971.4	1040.0
32.5°	952.5	959.6	956.8	938.1	888.5	839.4	834.6	865.7	871.8	966.6	1031.6
35°	1014.4	1017.7	1030.9	1021.3	970.4	894.3	860.7	873.6	878.4	966.9	1025.8
37.5°	1063.0	1071.8	1102.7	1111.0	1063.2	966.9	902.9	895.8	897.8	979.3	1028.1
40°	1121.7	1136.8	1176.6	1210.7	1179.3	1061.2	974.7	937.0	939.6	1009.1	1043.0
42.5°	1196.0	1206.6	1260.0	1306.3	1301.2	1185.9	1061.7	1004.6	1005.8	1068.6	1084.7
45°	1283.0	1298.2	1358.1	1427.7	1439.6	1327.0	1187.4	1106.7	1106.0	1160.9	1162.6
47.5°	1394.3	1403.7	1463.1	1539.0	1587.0	1504.3	1339.9	1253.4	1245.3	1295.4	1281.0
50°	1496.7	1511.4	1556.4	1639.4	1759.0	1712.0	1540.5	1443.6	1424.7	1471.4	1447.2
52.5°	1539.7	1555.2	1593.1	1696.0	1906.5	1980.6	1795.2	1670.5	1638.9	1674.8	1665.9
55°	1465.1	1485.1	1520.5	1645.7	1971.2	2290.4	2138.6	1932.8	1909.7	1894.3	1896.8
57.5°	1264.6	1283.5	1331.3	1469.4	1893.8	2515.2	2629.0	2269.9	2220.6	2149.5	2161.6
60°	962.6	974.5	999.3	1152.3	1664.4	2573.6	3185.9	2696.1	2664.7	2403.7	2412.3
62.5°	683.6	697.0	714.2	790.6	1218.5	2409.0	3622.0	3291.2	3179.1	2667.0	2658.6
65°	555.1	546.0	566.8	602.4	715.0	1867.0	3720.1	4117.2	3962.9	3013.7	2897.9
67.5°	456.5	446.9	467.4	530.9	543.8	1083.7	3366.5	4653.3	4622.5	3390.8	3140.9
69°	404.2	399.1	417.1	489.4	522.0	769.6	2932.8	4728.0	4735.3	3613.1	3178.4
70°	364.2	366.2	383.7	468.4	512.1	634.6	2506.6	4625.0	4687.2	3724.1	3137.9
72.5°	268.1	272.4	296.7	388.0	502.8	538.5	1491.7	4039.8	4149.8	3730.7	2870.6
75°	187.4	185.4	206.9	292.1	475.0	533.6	876.1	3124.2	3248.9	3224.6	2412.0
77.5°	122.7	126.0	143.1	206.4	399.6	529.6	571.1	2216.5	2297.5	2156.6	1426.7
80°	86.5	86.2	95.9	140.9	296.4	508.9	467.6	1397.1	1376.6	847.5	423.1
82.5°	49.6	53.1	64.2	99.1	198.3	447.9	430.2	668.2	610.0	241.5	142.9
85°	27.6	28.8	38.2	59.9	115.8	337.4	375.6	304.0	286.8	100.9	61.5
87.5°	8.9	9.6	15.9	30.3	52.6	159.3	212.7	140.4	129.5	36.4	24.8
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°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1056.2	1059.2	1051.1	1043.3	1036.2	1026.3	1017.5	1010.1	1005.1	1004.3	1001.8
5°	1059.7	1060.0	1044.5	1023.8	1003.6	981.3	958.3	941.8	926.4	917.8	913.5
7.5°	1062.2	1060.0	1032.1	998.5	959.6	919.1	878.6	846.2	821.2	811.3	815.1
10°	1061.2	1054.1	1013.4	959.6	902.9	842.5	784.3	738.8	697.0	675.5	676.0
12.5°	1055.7	1044.0	985.6	915.8	832.6	751.7	662.6	601.2	552.9	524.3	515.4
15°	1050.9	1030.6	953.0	856.4	752.9	637.3	528.8	453.0	412.5	390.0	389.7
17.5°	1045.8	1017.7	917.3	793.4	661.4	512.7	398.8	340.9	322.0	324.2	320.4
20°	1040.5	1002.5	880.1	723.3	549.8	382.4	298.7	275.2	280.5	290.8	292.4
22.5°	1034.4	986.4	840.2	646.2	432.5	287.8	242.3	238.7	252.4	268.6	270.9
25°	1025.1	966.1	789.8	565.5	333.6	231.9	212.2	214.7	228.1	241.8	243.3
27.5°	1011.9	941.1	739.0	464.9	250.6	199.0	194.0	197.3	203.8	212.2	214.2
30°	994.2	912.8	680.6	377.9	200.8	182.6	180.6	182.4	186.1	189.7	190.7
32.5°	976.5	885.4	621.7	289.3	179.1	171.7	169.7	169.7	169.7	170.2	170.5
35°	960.1	859.7	558.4	225.3	167.7	163.1	160.3	157.3	156.8	155.0	155.0
37.5°	951.0	836.1	491.2	188.7	159.3	156.0	152.3	147.2	144.4	144.7	144.2
40°	952.7	820.7	430.0	167.9	152.5	149.0	143.1	137.3	135.6	135.6	135.1
42.5°	972.7	815.6	371.3	157.1	145.9	141.9	134.5	129.2	128.2	128.0	128.5
45°	1018.7	828.0	318.7	150.0	140.4	134.3	127.0	122.2	121.1	121.1	120.9
47.5°	1108.5	868.3	281.0	145.4	136.3	128.5	120.9	116.1	114.3	113.8	113.8
50°	1248.1	955.5	252.9	141.4	131.3	123.2	115.3	109.8	107.0	106.7	106.5
52.5°	1442.1	1091.6	242.0	138.3	125.7	117.6	109.0	103.7	100.2	99.4	98.9
55°	1669.0	1281.5	257.0	136.1	119.9	111.3	102.4	96.9	93.6	92.1	91.8
57.5°	1931.7	1509.6	313.6	133.0	114.6	104.5	95.9	90.3	86.7	85.0	84.5
60°	2167.7	1744.1	412.5	131.3	110.0	97.1	88.3	83.2	79.9	78.2	77.9
62.5°	2427.0	1967.7	530.6	136.1	108.0	90.0	81.2	76.6	73.9	72.1	72.1
65°	2703.9	2191.5	608.8	152.3	111.0	84.5	73.6	69.8	67.3	66.0	65.8
67.5°	2890.5	2268.9	501.5	168.9	118.6	78.4	66.3	63.2	61.7	60.4	60.4
69°	2870.3	2171.0	370.0	173.2	120.9	75.4	62.2	59.9	57.9	57.4	56.9
70°	2806.3	2059.5	310.1	170.5	119.1	72.6	59.7	56.9	55.1	54.6	54.4
72.5°	2499.5	1786.1	230.9	148.2	101.4	63.0	52.9	50.3	48.8	48.1	48.1
75°	2076.7	1459.8	180.3	117.9	79.4	53.1	45.3	43.2	42.0	41.5	41.2
77.5°	1163.9	815.1	129.5	92.3	60.2	43.0	37.9	36.2	34.9	34.4	34.4
80°	324.2	232.9	76.1	61.0	41.0	32.6	30.1	28.8	27.1	25.8	26.6
82.5°	122.2	100.9	43.5	36.7	26.1	21.8	21.0	20.0	19.2	17.5	17.5
85°	59.4	49.1	27.8	19.5	14.4	11.4	10.9	10.4	9.9	8.6	8.9
87.5°	20.5	21.8	12.1	7.1	4.3	2.8	2.3	1.3	1.3	1.3	1.3
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)