

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: P451534

Luminaire Tested: **GALN-SA2B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7480 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

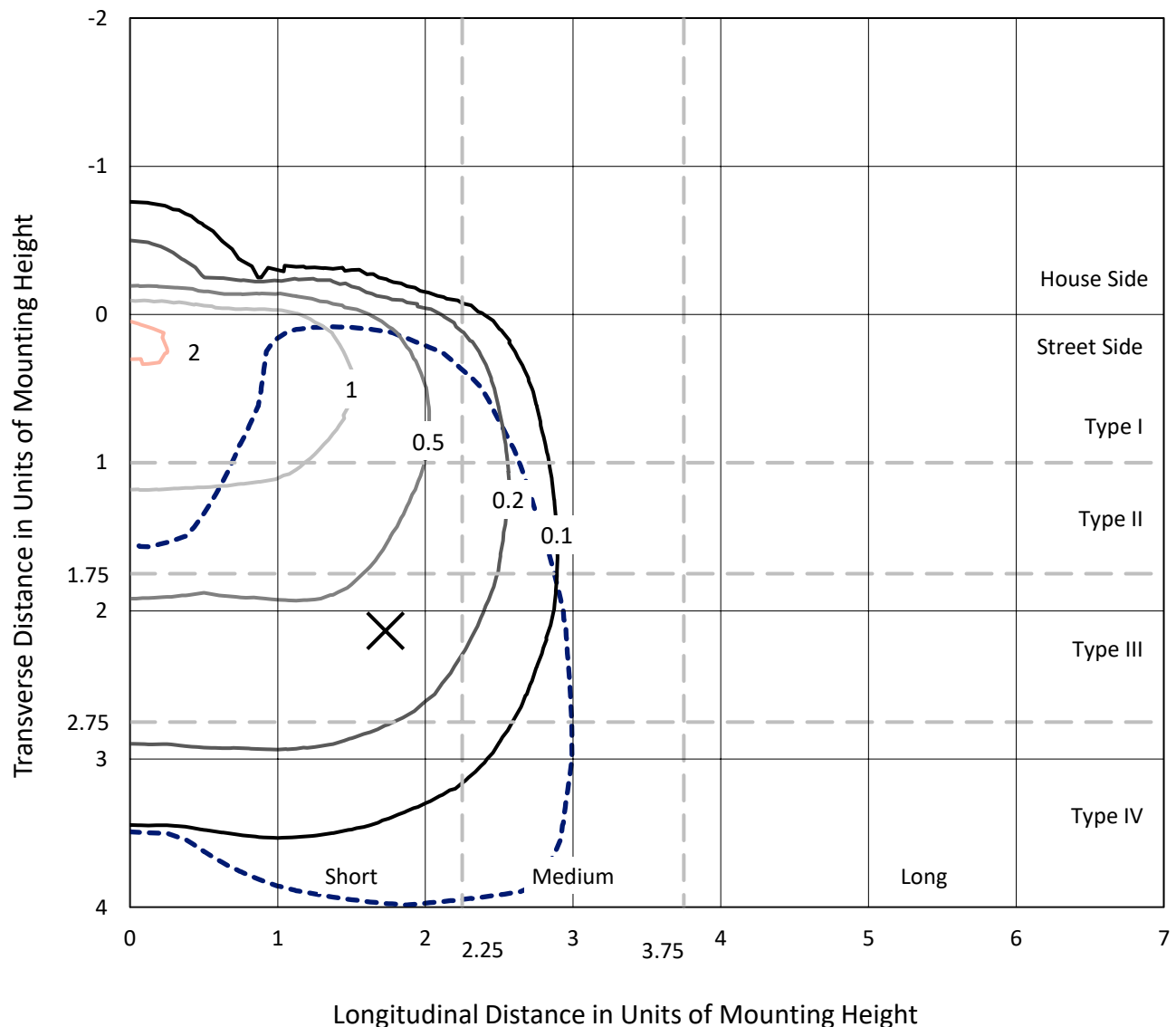


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Iso-Footcandle Lines of Horizontal Illumination

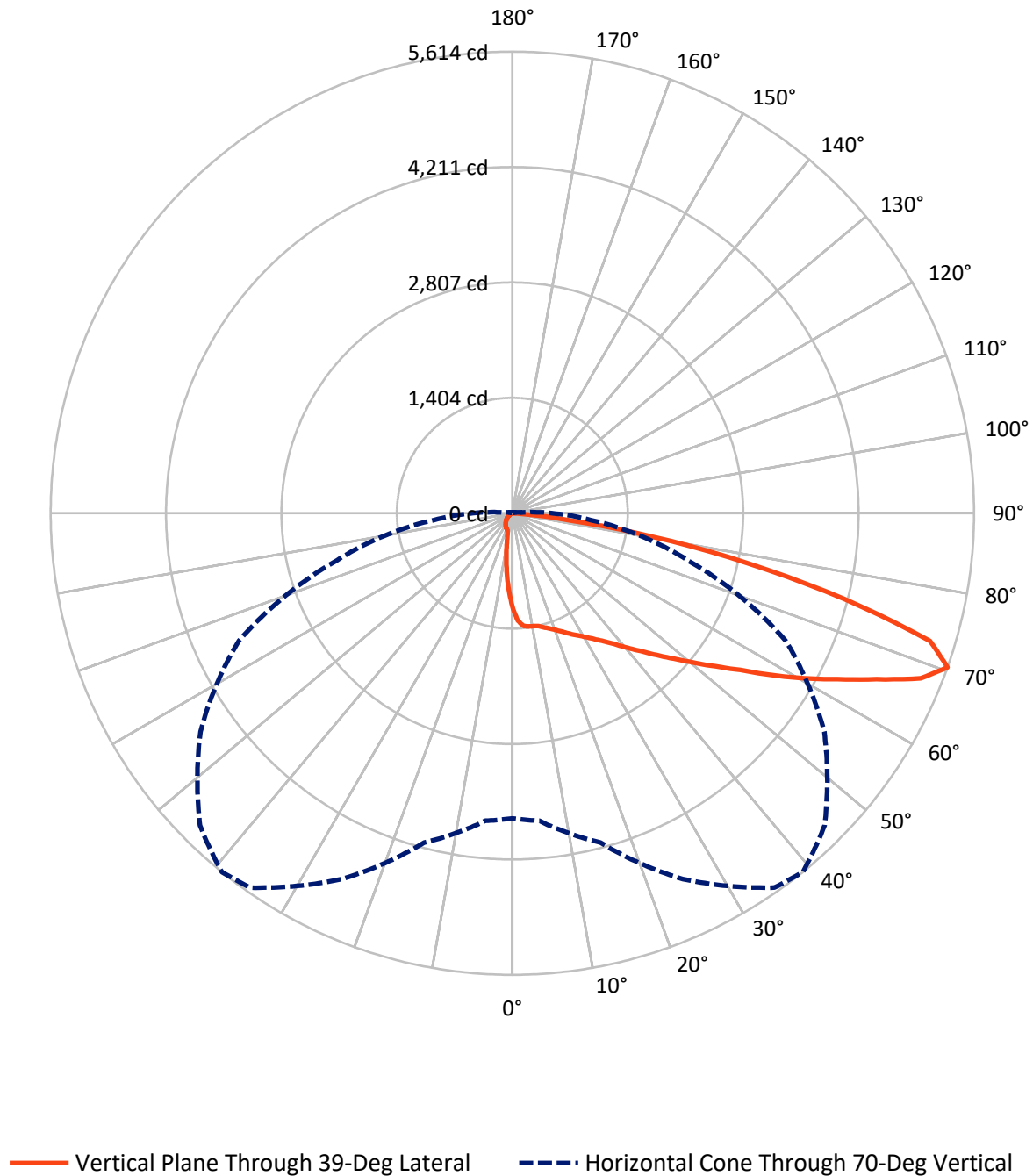
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.7	0.0	487.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	6992.3	0.0	6992.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	7480.0	0.0	7480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.3
10°-20°	258.7	3.5
20°-30°	433.4	5.8
30°-40°	672.1	9.0
40°-50°	1065.1	14.2
50°-60°	1561.3	20.9
60°-70°	2001.2	26.8
70°-80°	1257.5	16.8
80°-90°	131.0	1.8
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°	7480.0	100.0
0°-180°	7480.0	100.0

Coefficient of Utilization



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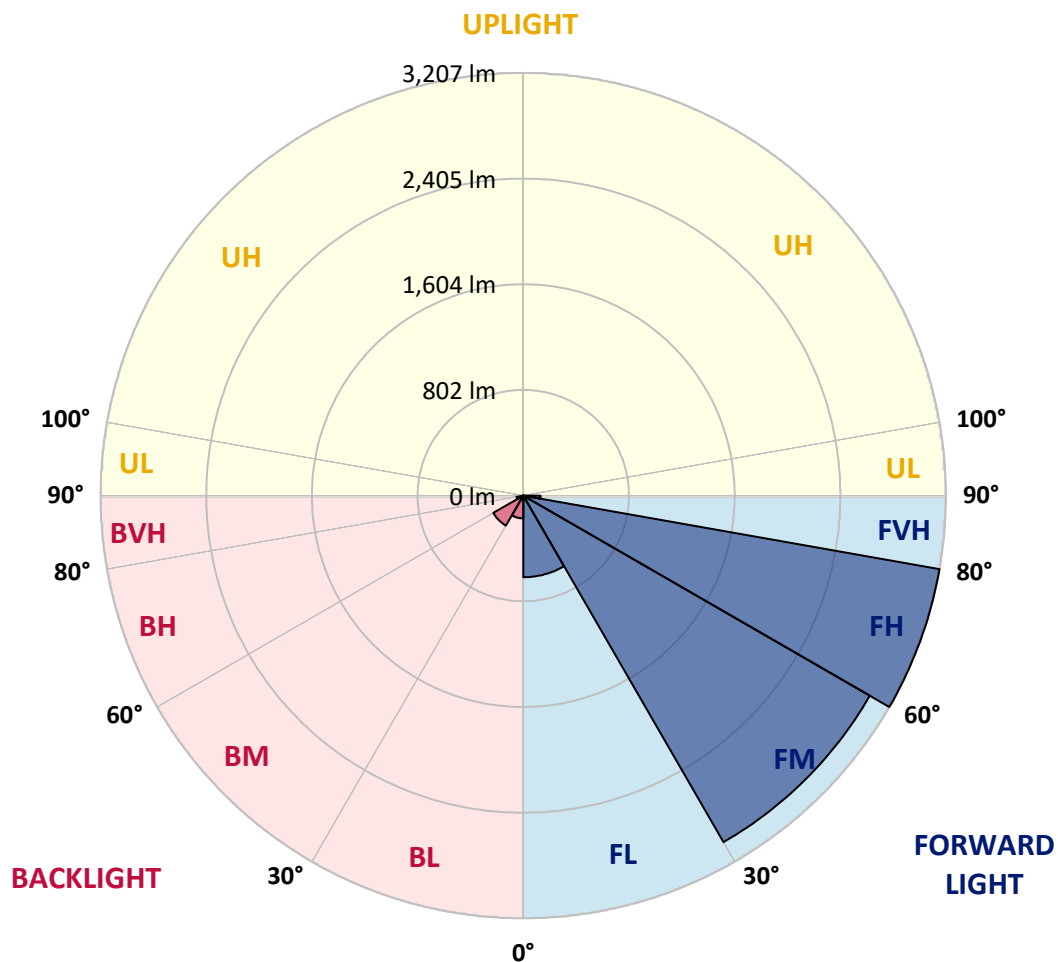
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.9	8.3			
FM	(30°-60°)	3036.1	40.6			
FH	(60°-80°)	3207.2	42.9			G2/5000
FVH	(80°-90°)	130.0	1.7			G2/225
BL	(0°-30°)	172.7	2.3	B1/500		
BM	(30°-60°)	262.5	3.5	B1/1000		
BH	(60°-80°)	51.6	0.7	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1
2.5°	1348.6	1344.1	1338.0	1331.0	1310.9	1307.4	1295.3	1269.7	1239.0	1213.9	1179.2
5°	1412.4	1414.9	1410.4	1397.8	1383.3	1374.7	1359.6	1319.9	1280.2	1229.5	1172.7
7.5°	1427.0	1432.0	1426.5	1414.4	1400.4	1391.3	1379.3	1345.1	1298.8	1241.0	1163.1
10°	1425.5	1431.5	1428.0	1417.0	1405.4	1396.8	1383.8	1356.6	1319.4	1258.6	1166.1
12.5°	1423.0	1431.0	1430.5	1425.0	1415.4	1408.9	1400.9	1376.7	1342.1	1284.3	1182.7
15°	1415.9	1426.0	1435.0	1439.6	1440.1	1440.1	1430.0	1404.4	1371.2	1317.9	1204.3
17.5°	1419.0	1430.5	1453.1	1466.2	1475.3	1474.3	1463.7	1436.1	1399.4	1352.6	1227.0
20°	1437.6	1453.1	1484.8	1510.9	1520.0	1517.0	1502.9	1470.7	1429.0	1382.3	1249.1
22.5°	1483.3	1497.4	1537.1	1567.7	1574.3	1566.2	1546.1	1502.4	1464.7	1414.4	1275.7
25°	1551.7	1568.2	1604.9	1628.1	1628.1	1623.5	1595.4	1544.1	1504.9	1459.2	1310.4
27.5°	1634.6	1648.7	1684.9	1705.5	1693.4	1680.3	1652.2	1590.4	1552.7	1515.5	1352.1
30°	1718.5	1727.6	1765.8	1774.8	1762.3	1745.7	1715.5	1653.7	1620.5	1591.9	1412.4
32.5°	1798.0	1817.6	1849.2	1847.2	1830.1	1822.1	1794.4	1728.6	1710.0	1707.0	1496.9
35°	1877.4	1892.5	1920.6	1927.6	1912.6	1911.0	1890.9	1842.2	1842.7	1862.3	1628.6
37.5°	1945.7	1959.3	1992.5	2008.1	2011.1	2018.6	2010.6	1978.4	2024.1	2077.9	1803.0
40°	2003.0	2022.1	2064.4	2091.5	2122.7	2150.3	2151.8	2158.9	2250.8	2343.3	2030.7
42.5°	2047.8	2074.4	2135.7	2186.0	2257.4	2292.6	2320.7	2359.4	2514.2	2652.4	2299.1
45°	2106.1	2136.7	2213.1	2292.1	2403.6	2461.4	2500.6	2604.2	2823.8	3012.3	2574.5
47.5°	2202.6	2218.7	2296.6	2411.7	2558.5	2640.9	2717.3	2874.1	3156.1	3325.0	2803.7
50°	2326.7	2337.3	2396.1	2555.9	2745.9	2854.5	2993.7	3178.2	3500.9	3584.3	2933.4
52.5°	2464.0	2467.5	2511.7	2714.8	2956.0	3092.8	3248.6	3476.3	3781.9	3769.3	3019.4
55°	2623.3	2618.3	2656.0	2887.2	3204.9	3361.2	3542.6	3781.4	4025.7	3900.5	3068.6
57.5°	2805.8	2792.2	2828.9	3115.9	3523.5	3710.5	3895.0	4044.8	4214.7	4010.6	3092.3
60°	2996.8	2969.6	3013.3	3372.7	3899.0	4076.4	4229.7	4270.0	4413.7	4098.0	3051.5
62.5°	3149.1	3149.6	3231.0	3646.2	4285.0	4440.3	4521.8	4558.0	4585.1	4078.9	2837.4
65°	3386.8	3394.8	3525.0	4025.7	4731.9	4866.6	4922.4	4804.8	4592.6	3841.7	2515.7
67.5°	3632.1	3657.7	3896.0	4548.4	5248.1	5356.7	5284.8	4852.5	4387.6	3300.4	1907.5
70°	3712.0	3754.2	4146.8	4908.3	5557.7	5614.0	5370.7	4629.8	3667.8	2206.6	960.0
72.5°	3401.4	3469.7	4002.5	4777.1	5360.2	5311.4	4805.3	3882.9	2331.8	837.9	293.0
75°	2398.6	2428.8	3326.5	3962.8	4311.2	4172.9	3655.2	2503.2	959.0	235.2	100.5
77.5°	1238.5	1223.9	1978.4	2629.3	3074.7	2931.4	2393.6	1295.8	363.4	98.0	62.3
80°	640.4	650.9	856.0	1377.7	1876.9	1727.1	1276.2	600.7	193.5	54.3	47.8
82.5°	358.9	336.8	492.1	601.7	877.6	688.1	489.6	425.2	84.4	32.7	45.2
85°	65.3	68.4	269.9	325.2	304.6	193.5	157.8	284.0	24.6	18.1	31.7
87.5°	1.0	1.0	52.3	93.5	59.3	27.1	49.8	40.7	5.0	7.0	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°	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1	1167.1
2.5°	1161.6	1142.5	1106.8	1071.6	1026.9	990.2	965.6	939.9	913.8	915.8	921.8
5°	1141.5	1108.3	1038.0	963.6	892.2	827.9	764.5	707.7	684.6	663.5	664.5
7.5°	1121.4	1074.7	971.6	855.0	746.9	637.4	557.9	492.6	457.9	431.8	424.2
10°	1112.3	1050.5	910.8	750.4	597.1	477.5	375.5	322.2	281.0	267.9	271.4
12.5°	1116.4	1038.5	856.0	655.9	473.5	332.7	261.4	234.2	225.2	223.7	222.7
15°	1123.9	1029.9	802.2	551.4	347.8	247.3	219.7	214.6	213.6	212.6	213.1
17.5°	1134.0	1022.4	744.9	453.4	266.9	216.1	208.1	205.6	205.1	205.1	205.1
20°	1144.0	1013.8	681.1	365.9	222.7	204.1	199.0	197.5	197.0	197.0	196.5
22.5°	1155.6	1006.3	616.2	287.5	205.1	195.5	191.0	190.0	189.5	189.0	189.0
25°	1172.2	996.7	547.4	235.2	194.0	187.5	183.0	182.0	181.5	179.4	179.9
27.5°	1194.3	989.7	476.5	203.1	184.0	177.4	174.4	172.9	171.9	170.4	170.9
30°	1224.4	983.7	401.1	185.5	172.4	166.9	163.9	162.9	161.9	160.3	160.3
32.5°	1276.7	986.2	321.7	171.4	161.9	155.3	152.3	151.3	150.3	148.8	148.8
35°	1355.1	1000.8	257.4	159.3	149.3	142.8	139.7	139.7	138.2	136.2	135.7
37.5°	1483.3	1038.0	206.6	147.8	137.2	131.2	127.7	126.7	125.2	122.1	121.6
40°	1634.6	1095.8	173.9	136.2	126.2	120.1	117.1	114.1	110.1	107.1	106.6
42.5°	1824.6	1155.1	150.8	124.7	115.6	110.1	106.6	101.5	95.5	91.5	91.0
45°	2022.6	1209.4	135.2	114.1	105.6	101.0	97.0	89.0	81.4	76.4	75.9
47.5°	2170.4	1219.4	122.6	104.0	97.0	92.5	87.0	76.9	66.9	62.3	60.8
50°	2240.3	1170.7	109.6	94.0	88.5	83.4	76.4	64.8	53.8	48.3	47.2
52.5°	2264.9	1086.2	99.0	84.9	79.9	73.9	65.3	52.3	42.2	36.7	36.2
55°	2254.9	979.7	89.5	76.4	69.9	62.8	54.3	41.7	31.2	26.6	25.6
57.5°	2202.1	843.9	79.9	67.9	59.8	52.8	43.2	31.2	21.1	17.1	16.6
60°	2059.8	659.0	70.4	58.3	50.8	43.2	34.2	22.1	13.1	9.6	9.6
62.5°	1819.6	489.1	61.3	48.8	42.7	34.7	24.1	14.1	7.0	5.0	4.5
65°	1520.5	360.9	51.3	41.2	35.7	27.1	17.1	8.5	3.5	1.5	1.0
67.5°	1061.1	222.7	42.7	33.7	29.2	19.6	10.6	3.5	1.5	0.0	0.0
70°	482.0	106.1	32.7	25.6	22.1	14.1	5.5	2.0	1.0	0.0	0.0
72.5°	149.8	55.8	23.1	18.6	15.1	9.0	3.0	1.5	1.0	0.0	0.0
75°	69.4	35.7	14.6	10.1	8.5	4.5	2.0	1.0	0.5	0.0	0.0
77.5°	51.8	27.6	8.5	5.5	4.5	3.0	1.5	1.0	0.5	0.0	0.0
80°	45.2	14.1	5.0	3.5	2.5	2.0	1.0	0.5	0.0	0.0	0.0
82.5°	40.7	7.0	3.0	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0
85°	22.1	4.0	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	1.5	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0
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)