

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: P528112

Luminaire Tested: **GALN-SA3A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9533 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 93
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



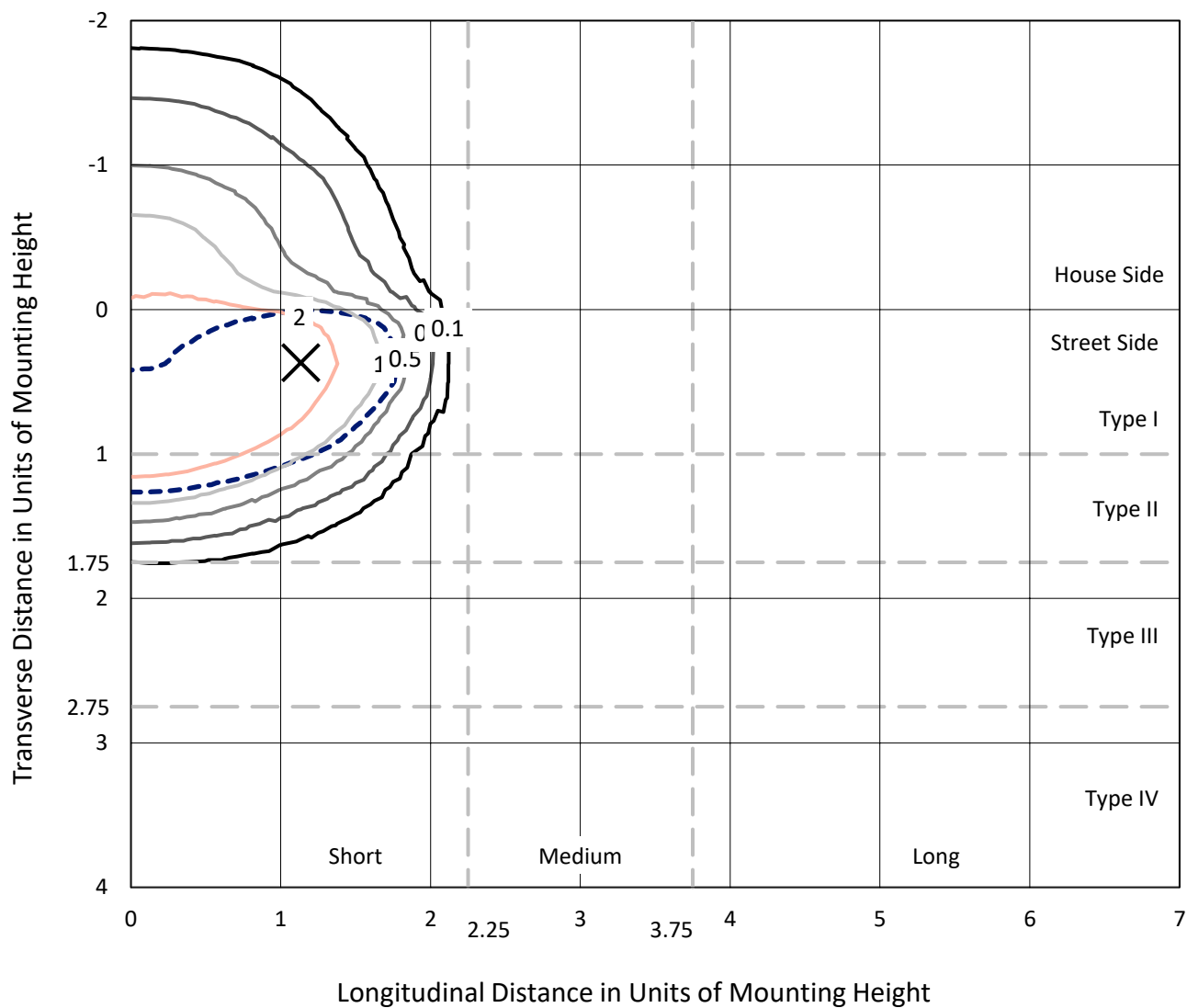
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

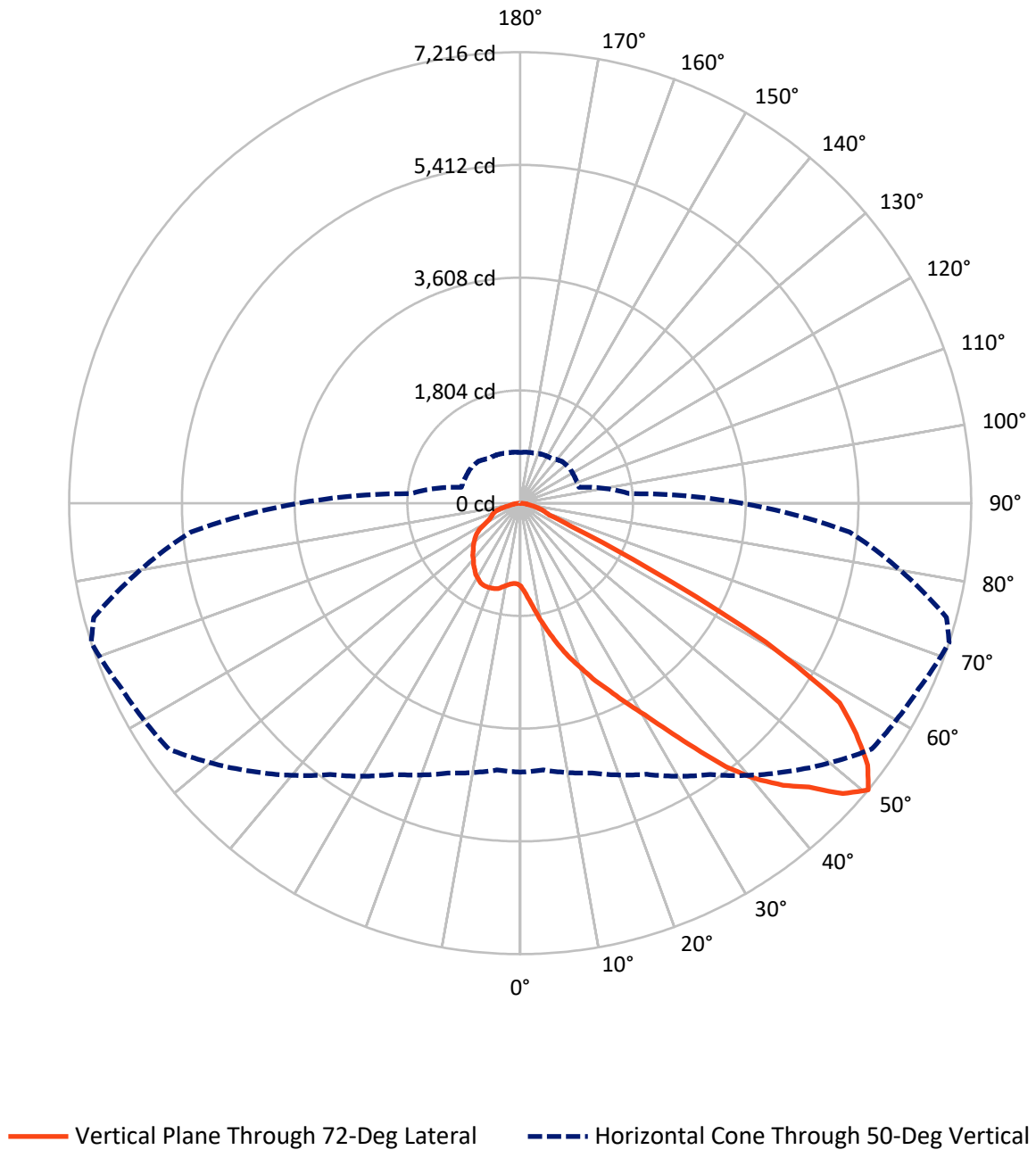


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2184.1	0.0	2184.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7348.9	0.0	7348.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	9533.0	0.0	9533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.6
10°-20°	583.5	6.1
20°-30°	1131.5	11.9
30°-40°	1874.4	19.7
40°-50°	2622.7	27.5
50°-60°	2212.6	23.2
60°-70°	674.4	7.1
70°-80°	236.6	2.5
80°-90°	41.1	0.4
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°	9533.0	100.0
0°-180°	9533.0	100.0

Coefficient of Utilization



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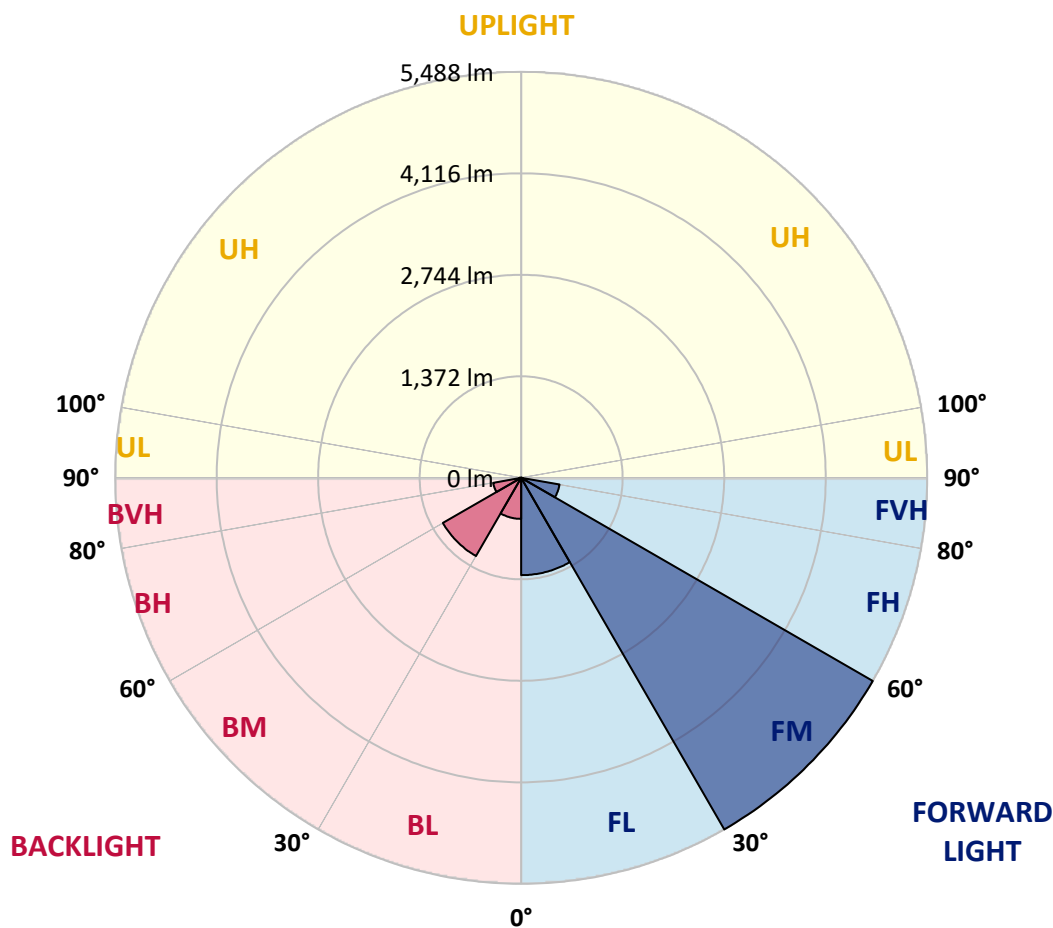
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.9	13.8			
FM	(30°-60°)	5488.4	57.6			
FH	(60°-80°)	526.2	5.5			G0/660
FVH	(80°-90°)	18.4	0.2			G1/100
BL	(0°-30°)	555.2	5.8	B2/1000		
BM	(30°-60°)	1221.4	12.8	B2/2500		
BH	(60°-80°)	384.8	4.0	B1/500		G1/500
BVH	(80°-90°)	22.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1706.9	1696.3	1664.4	1653.8	1616.1	1547.7	1524.1	1454.5	1425.0	1397.9	1366.0
5°	2158.7	2109.2	2105.6	2045.5	1958.2	1907.4	1756.5	1655.0	1561.8	1514.6	1427.3
7.5°	2446.5	2447.7	2447.7	2398.2	2328.6	2200.0	2064.3	1881.5	1741.1	1671.5	1522.9
10°	2720.2	2696.6	2683.6	2678.9	2631.7	2506.7	2361.6	2135.1	1942.8	1861.4	1594.8
12.5°	2913.7	2893.6	2923.1	2907.8	2873.6	2792.2	2655.3	2397.0	2156.3	2046.6	1710.5
15°	3005.7	3019.8	3043.4	3085.9	3070.6	3039.9	2888.9	2665.9	2386.4	2262.5	1813.1
17.5°	3147.2	3108.3	3136.6	3189.7	3232.2	3218.0	3131.9	2860.6	2614.0	2461.9	1951.1
20°	3246.3	3223.9	3238.1	3299.4	3331.3	3411.5	3366.6	3115.4	2832.3	2671.8	2113.9
22.5°	3529.4	3496.4	3450.4	3459.8	3471.6	3528.2	3538.9	3395.0	3085.9	2916.0	2268.4
25°	3878.6	3847.9	3793.7	3738.2	3704.0	3693.4	3730.0	3614.4	3328.9	3153.1	2434.7
27.5°	4263.2	4211.3	4177.0	4062.6	3970.6	3956.5	3938.8	3876.2	3616.7	3426.8	2622.3
30°	4637.1	4595.8	4549.8	4367.0	4271.4	4256.1	4168.8	4186.5	3929.3	3718.2	2834.6
32.5°	4920.2	4923.7	4818.8	4680.7	4591.1	4509.7	4477.8	4528.6	4330.4	4160.5	3071.7
35°	5149.1	5159.7	5059.4	4934.4	4837.6	4894.3	4880.1	4903.7	4809.3	4601.7	3347.8
37.5°	5372.0	5318.9	5211.6	5151.4	5100.7	5193.9	5314.2	5334.3	5351.9	5107.8	3668.6
40°	5408.6	5413.3	5350.8	5393.2	5329.5	5469.9	5749.5	5723.5	5795.5	5582.0	4016.6
42.5°	5356.7	5367.3	5392.1	5452.2	5605.6	5774.3	6189.5	6083.3	6170.6	5980.7	4355.2
45°	5271.7	5228.1	5258.8	5487.6	5753.0	6128.1	6591.7	6509.2	6480.8	6321.6	4758.6
47.5°	4865.9	4910.8	5006.3	5288.2	5687.0	6189.5	6877.2	6858.3	6943.3	6831.2	5125.5
50°	4303.3	4285.6	4469.6	4786.9	5301.2	6069.2	6861.9	7032.9	7215.7	7060.0	5289.4
52.5°	3222.7	3317.1	3475.2	3869.2	4602.9	5413.3	6526.8	6812.3	6961.0	6927.9	5157.3
55°	2037.2	2065.5	2161.1	2629.4	3290.0	4344.5	5594.9	6256.7	6522.1	6646.0	5035.8
57.5°	989.7	936.6	1053.4	1429.7	1900.4	2921.9	4315.1	5449.9	6026.7	6250.8	4771.6
60°	516.7	536.7	582.7	717.2	982.6	1517.0	2689.5	3632.1	4513.2	4857.7	3616.7
62.5°	428.2	435.3	466.0	533.2	653.5	872.9	1373.1	1770.6	2301.4	2611.7	2057.3
65°	363.3	366.9	399.9	444.7	521.4	614.6	706.6	739.6	895.3	918.9	731.4
67.5°	303.2	306.7	342.1	384.6	434.1	458.9	482.5	480.1	497.8	490.7	489.5
70°	233.6	237.1	273.7	318.5	343.3	329.1	402.3	418.8	425.8	431.7	441.2
72.5°	168.7	175.8	204.1	235.9	222.9	256.0	331.5	356.2	365.7	369.2	381.0
75°	122.7	125.0	132.1	122.7	141.6	178.1	233.6	264.2	276.0	279.6	297.3
77.5°	54.3	55.4	56.6	70.8	90.8	110.9	139.2	164.0	180.5	185.2	189.9
80°	28.3	29.5	36.6	48.4	64.9	81.4	101.4	115.6	126.2	127.4	132.1
82.5°	17.7	18.9	26.0	34.2	46.0	60.2	74.3	86.1	94.4	95.5	96.7
85°	8.3	10.6	15.3	21.2	30.7	38.9	40.1	34.2	36.6	37.7	35.4
87.5°	2.4	3.5	4.7	3.5	4.7	4.7	5.9	7.1	7.1	7.1	8.3
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°	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1348.3	1337.7	1296.4	1281.1	1241.0	1248.0	1226.8	1225.6	1220.9	1219.7	1218.5
5°	1381.3	1348.3	1298.8	1261.0	1238.6	1236.2	1220.9	1220.9	1225.6	1229.2	1220.9
7.5°	1435.6	1397.9	1314.1	1278.7	1258.7	1255.1	1244.5	1236.2	1246.9	1243.3	1233.9
10°	1498.1	1432.1	1343.6	1312.9	1279.9	1271.6	1271.6	1275.2	1257.5	1263.4	1253.9
12.5°	1567.7	1479.2	1381.3	1345.9	1307.0	1302.3	1299.9	1274.0	1283.4	1278.7	1255.1
15°	1656.2	1533.5	1429.7	1369.5	1336.5	1315.3	1284.6	1279.9	1274.0	1262.2	1251.6
17.5°	1751.7	1592.5	1452.1	1376.6	1327.1	1311.7	1288.1	1263.4	1245.7	1248.0	1239.8
20°	1833.1	1646.8	1460.4	1383.7	1320.0	1290.5	1253.9	1238.6	1219.7	1218.5	1217.4
22.5°	1929.9	1719.9	1472.2	1364.8	1298.8	1268.1	1243.3	1216.2	1203.2	1186.7	1195.0
25°	2045.5	1748.2	1474.5	1354.2	1283.4	1229.2	1216.2	1186.7	1182.0	1158.4	1163.1
27.5°	2129.2	1763.5	1455.7	1321.2	1248.0	1206.8	1183.2	1161.9	1153.7	1136.0	1131.3
30°	2241.3	1787.1	1415.5	1279.9	1212.7	1166.6	1152.5	1147.8	1124.2	1105.3	1102.9
32.5°	2368.7	1802.5	1389.6	1237.4	1176.1	1140.7	1147.8	1125.4	1095.9	1079.4	1074.6
35°	2470.1	1808.4	1324.7	1189.1	1151.3	1128.9	1120.6	1115.9	1073.5	1058.1	1046.3
37.5°	2624.7	1795.4	1270.5	1154.9	1124.2	1115.9	1108.8	1077.0	1028.6	1006.2	989.7
40°	2805.1	1791.8	1200.9	1106.5	1098.2	1107.7	1086.4	1036.9	969.6	944.9	933.1
42.5°	2978.5	1816.6	1157.2	1080.5	1069.9	1073.5	1044.0	969.6	936.6	922.5	903.6
45°	3268.7	1868.5	1085.3	1040.4	1035.7	1033.3	998.0	920.1	901.2	883.5	880.0
47.5°	3530.6	1834.3	1039.2	999.1	1003.9	990.9	915.4	890.6	869.4	851.7	845.8
50°	3545.9	1752.9	974.4	967.3	968.5	946.1	874.1	857.6	830.5	818.7	810.4
52.5°	3465.7	1619.6	914.2	916.6	920.1	883.5	823.4	811.6	789.2	772.7	767.9
55°	3240.4	1412.0	855.2	864.7	874.1	804.5	785.6	756.1	738.4	714.9	716.0
57.5°	2854.7	1137.2	772.7	788.0	808.0	731.4	717.2	680.6	654.7	635.8	633.5
60°	1913.3	809.2	648.8	654.7	699.5	668.8	667.7	631.1	595.7	579.2	569.8
62.5°	1128.9	618.1	560.3	554.4	553.2	570.9	600.4	587.5	541.4	509.6	519.0
65°	591.0	534.4	521.4	501.3	489.5	484.8	507.2	513.1	482.5	448.3	445.9
67.5°	496.6	496.6	486.0	478.9	462.4	442.4	428.2	409.3	404.6	395.2	383.4
70°	451.8	463.6	460.1	443.5	429.4	407.0	370.4	339.7	310.2	299.6	306.7
72.5°	394.0	405.8	405.8	397.5	378.7	344.4	309.1	273.7	248.9	230.0	227.7
75°	303.2	309.1	323.2	313.8	289.0	267.8	231.2	194.6	171.0	153.4	149.8
77.5°	193.5	202.9	202.9	201.7	184.0	164.0	140.4	114.4	96.7	83.8	80.2
80°	128.6	134.5	139.2	134.5	122.7	107.3	89.7	72.0	59.0	48.4	46.0
82.5°	94.4	101.4	105.0	100.3	88.5	76.7	63.7	50.7	37.7	29.5	27.1
85°	36.6	37.7	42.5	50.7	49.5	48.4	38.9	28.3	21.2	15.3	14.2
87.5°	9.4	8.3	9.4	9.4	8.3	7.1	7.1	7.1	7.1	3.5	4.7
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)