

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: P522651

Luminaire Tested: **GALN-SA2A-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8381 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

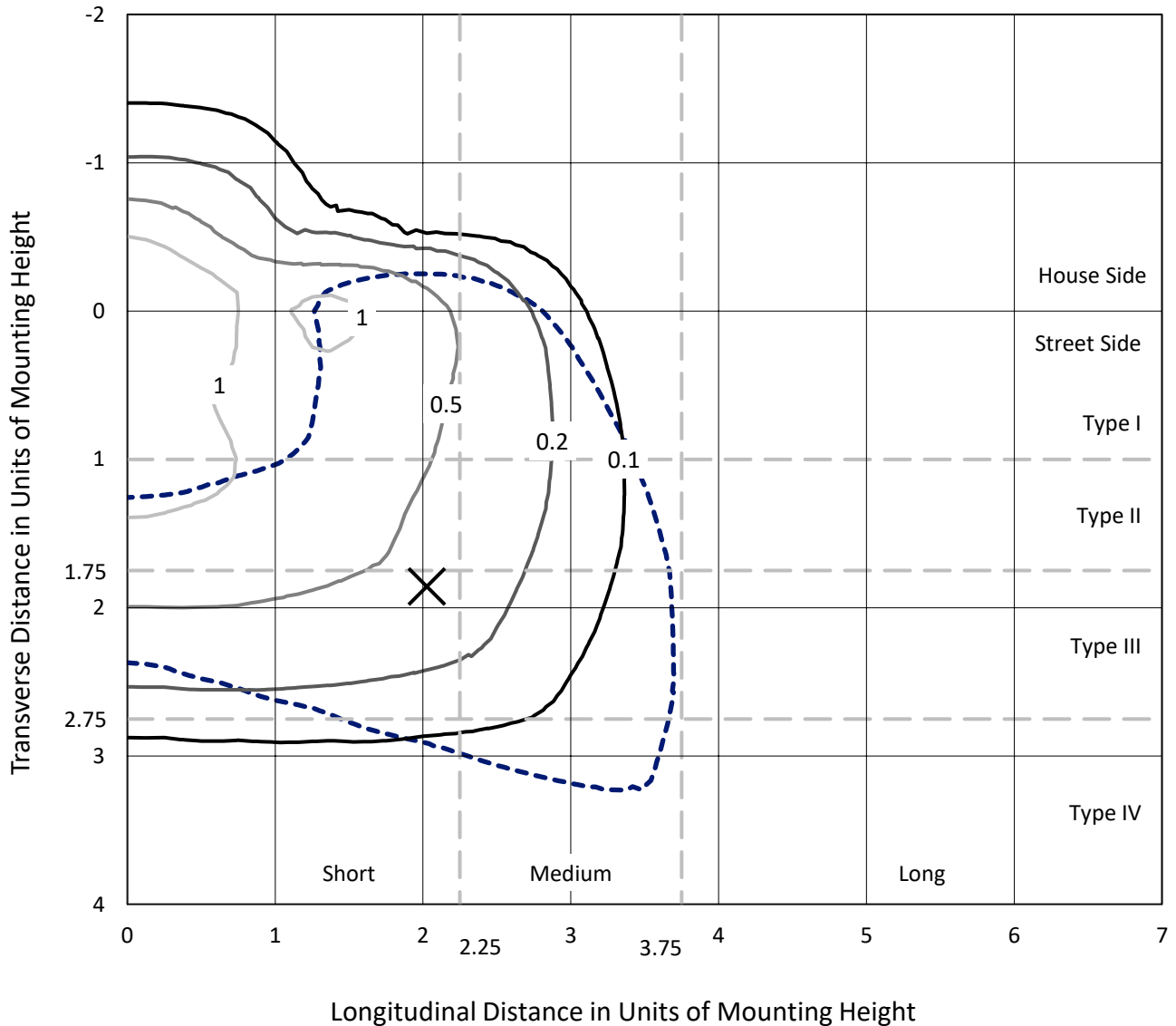
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

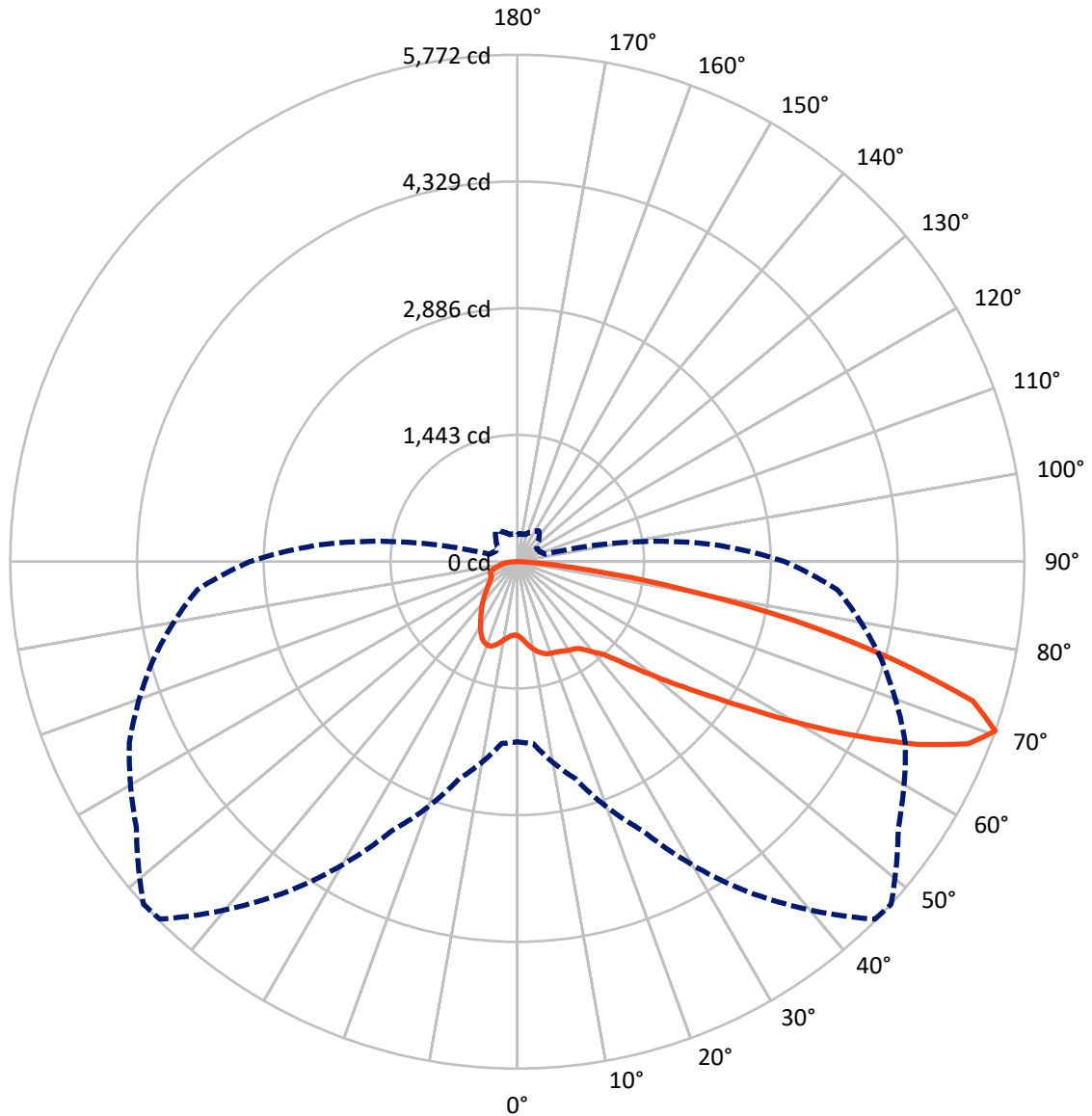
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1897.6	0.0	1897.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6483.4	0.0	6483.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	8381.0	0.0	8381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.0
10°-20°	289.9	3.5
20°-30°	482.2	5.8
30°-40°	683.4	8.2
40°-50°	1008.8	12.0
50°-60°	1747.3	20.8
60°-70°	2468.1	29.4
70°-80°	1418.8	16.9
80°-90°	195.8	2.3
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°	8381.0	100.0
0°-180°	8381.0	100.0

Coefficient of Utilization



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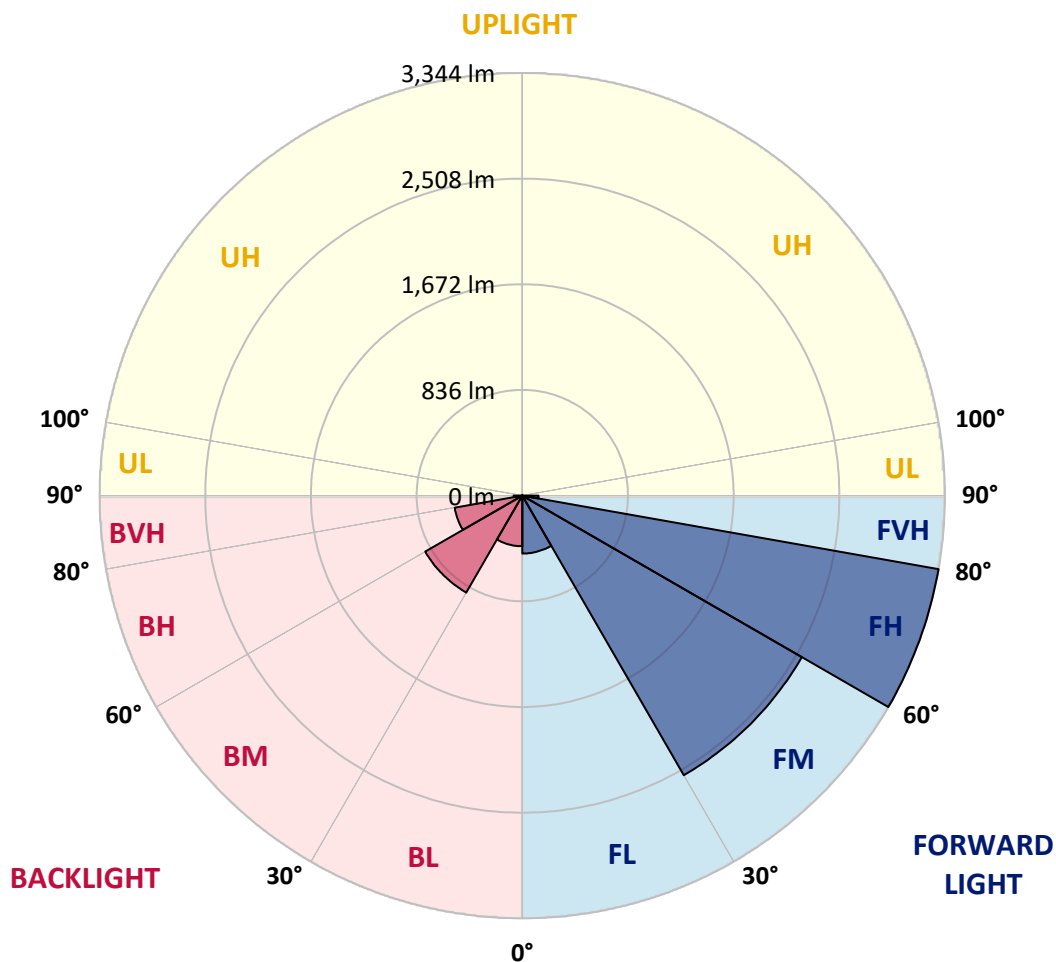
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.3	5.5			
FM	(30°-60°)	2553.5	30.5			
FH	(60°-80°)	3343.7	39.9			G2/5000
FVH	(80°-90°)	127.9	1.5			G2/225
BL	(0°-30°)	400.5	4.8	B1/500		
BM	(30°-60°)	886.0	10.6	B1/1000		
BH	(60°-80°)	543.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	67.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4
2.5°	895.6	892.5	892.0	885.3	881.7	875.0	872.3	866.0	858.4	850.8	843.6
5°	966.0	966.0	962.9	953.5	938.7	923.4	916.7	904.6	883.1	865.6	850.8
7.5°	1038.2	1039.1	1032.9	1019.0	997.9	973.2	966.9	949.0	918.5	892.9	871.0
10°	1100.6	1100.6	1092.1	1073.2	1046.8	1019.8	1013.6	993.4	959.3	927.5	898.8
12.5°	1148.1	1148.1	1136.9	1112.2	1083.5	1059.3	1052.1	1032.9	1001.0	965.6	929.3
15°	1179.1	1176.8	1164.3	1136.5	1108.6	1087.6	1082.6	1066.5	1037.3	1001.5	960.6
17.5°	1180.4	1179.5	1167.4	1144.1	1119.9	1105.5	1102.4	1091.6	1068.7	1034.6	991.6
20°	1154.4	1156.2	1148.1	1131.5	1119.9	1113.6	1112.2	1108.6	1092.5	1060.7	1017.6
22.5°	1126.6	1129.7	1122.1	1113.1	1112.2	1118.5	1119.4	1120.3	1110.0	1079.0	1039.6
25°	1119.9	1122.1	1114.5	1106.4	1111.3	1127.9	1131.5	1135.1	1127.0	1101.0	1065.6
27.5°	1153.9	1152.1	1137.3	1119.9	1123.0	1145.4	1150.4	1154.4	1150.4	1127.9	1097.9
30°	1250.4	1244.5	1214.9	1163.8	1147.7	1163.4	1168.3	1179.5	1179.5	1162.9	1132.9
32.5°	1411.8	1400.6	1346.3	1245.9	1189.8	1180.4	1185.3	1203.7	1213.1	1200.1	1167.4
35°	1607.8	1596.1	1518.6	1383.6	1267.0	1214.5	1213.1	1233.8	1258.9	1229.7	1187.1
37.5°	1804.7	1792.6	1699.3	1547.7	1379.5	1286.2	1278.2	1285.3	1296.1	1242.7	1214.5
40°	2001.6	1987.2	1905.6	1731.1	1517.2	1381.3	1360.2	1328.0	1323.5	1285.3	1267.4
42.5°	2196.7	2183.7	2142.4	1937.0	1682.3	1474.2	1441.9	1386.3	1403.3	1380.4	1364.7
45°	2393.5	2394.4	2350.5	2168.0	1881.4	1645.5	1602.0	1515.0	1555.3	1546.8	1555.8
47.5°	2568.0	2565.8	2550.1	2392.2	2128.5	1866.1	1810.1	1709.2	1778.2	1809.6	1878.2
50°	2737.1	2735.7	2736.6	2646.5	2415.5	2128.5	2066.6	1960.8	2116.4	2225.4	2348.2
52.5°	2979.3	2986.9	2932.6	2908.9	2764.4	2438.4	2370.2	2260.8	2516.0	2687.8	2927.7
55°	3222.3	3216.1	3173.5	3198.1	3129.5	2805.3	2733.9	2646.9	2960.9	3148.8	3509.4
57.5°	3365.4	3367.6	3411.2	3531.8	3580.2	3262.7	3198.1	3130.9	3460.9	3594.1	4026.9
60°	3494.1	3504.4	3629.6	3857.4	3988.8	3824.7	3767.2	3701.8	3919.7	3972.7	4476.3
62.5°	3534.5	3566.3	3784.7	4125.6	4387.0	4458.8	4387.5	4243.1	4356.6	4335.9	4780.8
65°	3333.1	3376.6	3768.1	4226.0	4742.7	5060.7	5015.4	4747.2	4728.8	4604.6	4830.6
67.5°	2803.0	2846.5	3349.3	4015.3	4889.8	5581.8	5536.5	5114.9	4954.8	4629.7	4453.9
70°	2050.9	2078.3	2559.0	3380.7	4594.2	5756.7	5772.4	5294.3	4874.1	4288.4	3656.9
72.5°	1181.7	1242.3	1579.1	2378.3	3753.3	5314.5	5423.5	4921.2	4363.7	3577.5	2556.8
75°	508.1	509.5	730.1	1311.8	2542.0	4271.8	4377.2	4079.4	3426.8	2473.8	1365.2
77.5°	241.7	246.2	321.1	585.7	1399.3	2951.5	3235.8	2881.9	2191.7	1188.5	515.8
80°	157.0	160.1	196.4	290.6	686.2	1711.4	1909.6	1662.5	966.9	424.7	222.4
82.5°	95.1	96.0	131.4	177.6	377.6	775.0	913.6	721.6	412.6	254.3	131.0
85°	57.9	58.3	79.8	109.9	229.2	267.7	274.9	272.7	242.2	166.4	70.0
87.5°	27.8	28.7	41.3	52.0	90.1	83.0	78.5	91.0	114.4	89.7	30.0
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°	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4
2.5°	840.5	839.1	836.0	834.6	833.7	834.2	833.7	833.7	834.2	834.2	834.2
5°	844.5	842.2	837.3	837.3	840.0	846.3	852.1	856.6	861.5	861.1	861.1
7.5°	862.0	857.9	852.1	853.9	860.6	870.5	880.8	890.7	900.6	901.4	901.0
10°	887.5	883.5	877.2	879.5	890.2	905.0	918.0	932.4	943.2	946.3	945.4
12.5°	916.7	908.6	903.2	909.5	926.6	946.3	958.9	969.6	977.2	981.7	979.9
15°	946.3	938.7	932.4	945.4	966.0	984.4	990.7	992.5	993.8	998.3	997.4
17.5°	975.0	964.7	962.4	979.5	999.2	1007.3	1003.7	996.1	990.2	993.8	993.4
20°	1000.6	992.5	991.6	1008.6	1016.3	1008.6	993.4	979.9	969.6	970.5	970.1
22.5°	1024.8	1018.5	1019.4	1026.6	1014.5	988.5	963.3	945.0	933.7	936.0	937.3
25°	1051.7	1045.4	1047.7	1036.0	996.1	950.8	914.5	898.8	894.3	898.8	901.9
27.5°	1086.7	1082.6	1081.3	1036.4	963.3	895.2	853.9	848.1	852.1	862.0	866.9
30°	1124.3	1124.3	1117.2	1028.8	918.5	828.3	792.5	793.4	807.3	821.2	826.1
32.5°	1160.7	1168.3	1145.9	1008.2	860.6	763.3	736.0	736.9	749.0	766.0	770.5
35°	1190.7	1212.7	1170.5	970.5	792.5	708.6	688.0	675.9	676.3	689.3	692.9
37.5°	1232.0	1272.8	1184.9	914.5	719.8	662.0	638.6	617.6	603.7	598.3	598.3
40°	1303.7	1363.8	1188.5	831.5	651.2	617.6	584.4	559.3	532.3	508.1	503.6
42.5°	1425.3	1501.1	1181.3	736.0	589.3	568.7	536.4	505.4	468.2	434.1	431.4
45°	1640.5	1679.6	1162.0	636.8	534.1	521.6	490.2	456.6	417.1	386.6	384.3
47.5°	1985.4	1930.3	1136.5	548.9	483.9	480.3	456.1	417.1	377.6	356.5	354.3
50°	2489.1	2324.9	1132.9	485.3	443.5	445.3	425.6	389.7	355.2	337.7	335.0
52.5°	3095.4	2801.7	1156.6	440.4	408.1	414.8	405.0	371.8	341.3	326.5	323.8
55°	3683.8	3230.4	1171.0	405.4	374.9	387.5	388.8	361.0	333.2	318.4	316.6
57.5°	4161.5	3553.3	1107.3	373.6	346.2	365.5	375.4	354.7	329.2	318.0	316.2
60°	4493.8	3705.8	926.1	345.3	325.1	348.0	370.4	355.2	339.1	340.4	341.3
62.5°	4599.6	3638.1	694.7	324.3	310.8	342.2	378.5	373.6	357.0	367.3	369.1
65°	4424.3	3358.2	503.6	307.7	298.2	346.2	402.7	387.0	350.7	358.3	358.3
67.5°	3837.2	2893.2	392.0	292.4	283.9	353.9	427.0	385.7	335.9	344.9	336.8
70°	3043.8	2237.9	326.5	275.4	268.6	342.6	429.2	371.8	318.4	320.2	305.0
72.5°	2020.0	1471.5	280.7	259.2	245.3	308.1	410.8	353.9	301.4	291.1	275.8
75°	989.8	733.7	244.9	239.0	214.8	268.2	385.7	336.8	283.0	266.8	258.3
77.5°	383.5	312.1	209.0	213.5	187.0	236.3	352.5	312.6	258.8	236.8	230.1
80°	186.1	177.2	171.3	178.0	153.8	201.4	322.0	291.5	236.3	212.1	202.3
82.5°	115.7	109.4	131.4	138.6	118.4	183.9	305.4	273.6	208.1	175.8	167.7
85°	58.8	62.8	87.9	94.6	84.8	146.2	251.6	205.4	150.2	124.7	125.6
87.5°	22.4	30.0	46.2	49.8	45.3	77.1	138.6	119.7	96.4	65.5	60.5
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)