

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: P522644

Luminaire Tested: **GALN-SA1D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522644
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-SA1D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7833 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

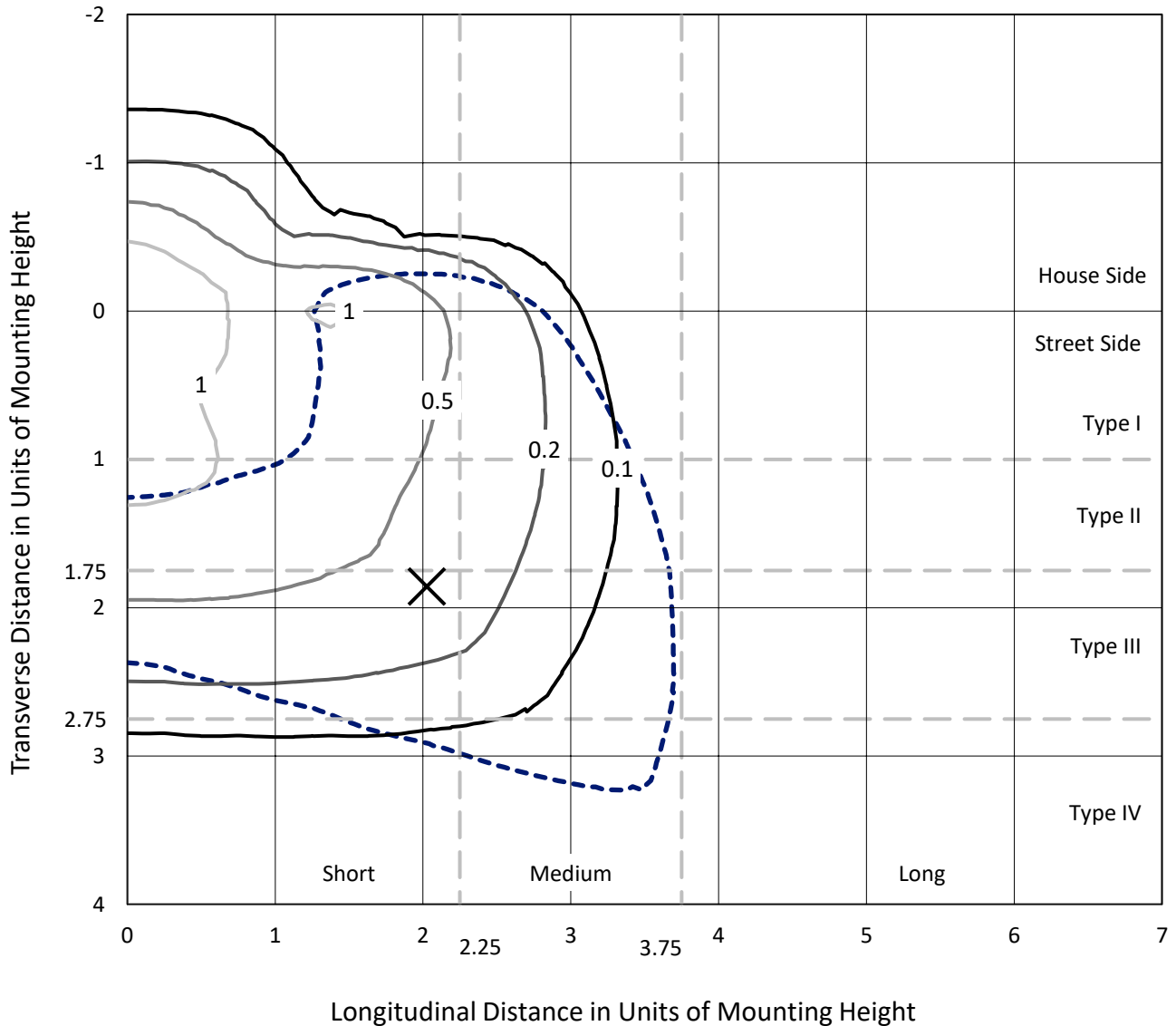
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522644
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Iso-Footcandle Lines of Horizontal Illumination

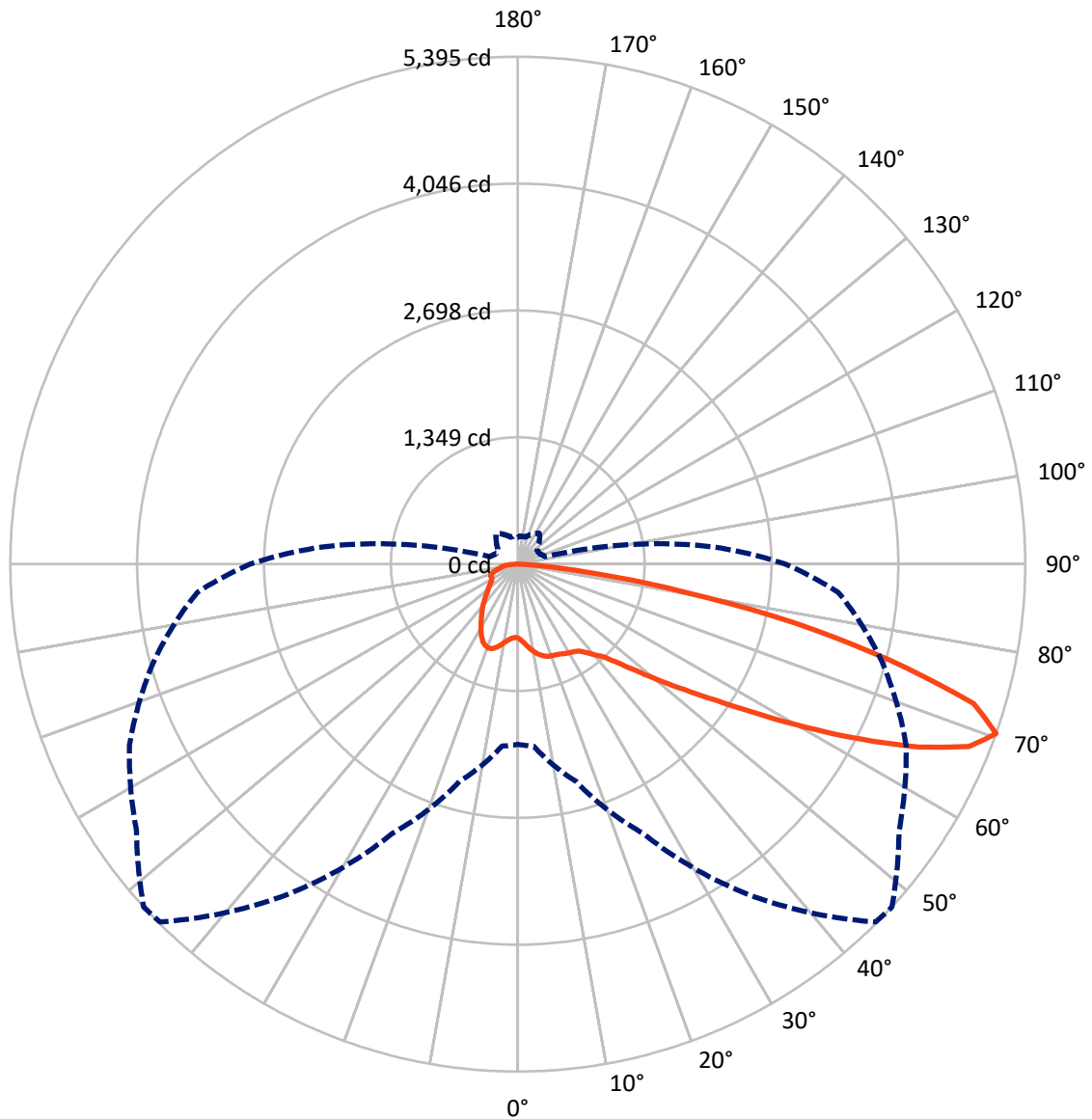
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P522644
CATALOG NUMBER: GALN-SA1D-740-U-T4W

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	1773.5	0.0	1773.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6059.5	0.0	6059.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	7833.0	0.0	7833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	1.0
10°-20°	271.0	3.5
20°-30°	450.6	5.8
30°-40°	638.7	8.2
40°-50°	942.8	12.0
50°-60°	1633.1	20.8
60°-70°	2306.7	29.4
70°-80°	1326.0	16.9
80°-90°	183.0	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°	7833.0	100.0
0°-180°	7833.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522644

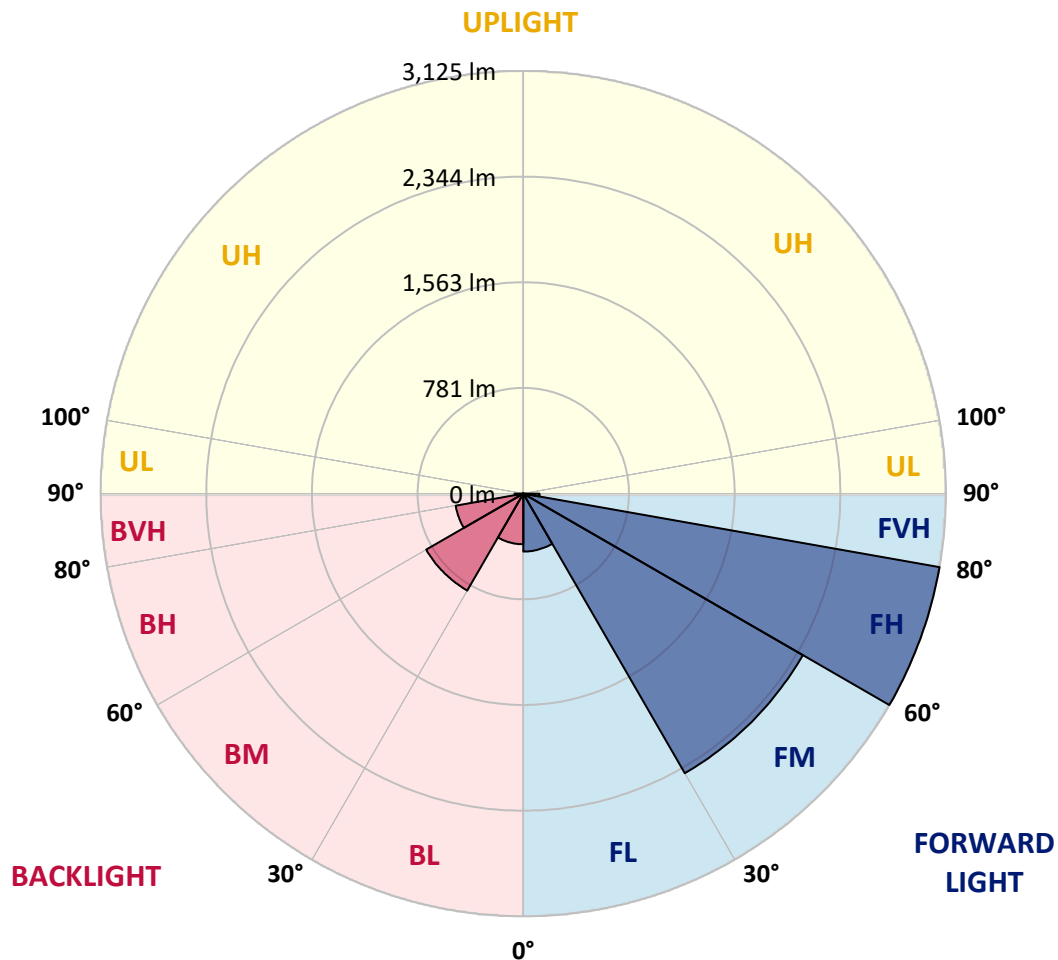
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.3	5.5			
FM	(30°-60°)	2386.6	30.5			
FH	(60°-80°)	3125.0	39.9			G2/5000
FVH	(80°-90°)	119.5	1.5			G2/225
BL	(0°-30°)	374.3	4.8	B1/500		
BM	(30°-60°)	828.0	10.6	B1/1000		
BH	(60°-80°)	507.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	63.4	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





REPORT NUMBER: P522644

CATALOG NUMBER: GALN-SA1D-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	837.1	834.1	833.7	827.4	824.1	817.8	815.3	809.4	802.3	795.1	788.4
5°	902.9	902.9	899.9	891.1	877.3	863.0	856.8	845.4	825.3	809.0	795.1
7.5°	970.3	971.2	965.3	952.3	932.6	909.6	903.7	886.9	858.4	834.5	814.0
10°	1028.6	1028.6	1020.6	1003.0	978.3	953.2	947.3	928.4	896.6	866.8	840.0
12.5°	1073.0	1073.0	1062.6	1039.5	1012.7	990.0	983.3	965.3	935.6	902.4	868.5
15°	1102.0	1099.9	1088.1	1062.1	1036.2	1016.5	1011.8	996.8	969.5	936.0	897.8
17.5°	1103.2	1102.4	1091.1	1069.3	1046.6	1033.2	1030.3	1020.2	998.9	967.0	926.8
20°	1078.9	1080.6	1073.0	1057.5	1046.6	1040.8	1039.5	1036.2	1021.1	991.3	951.1
22.5°	1052.9	1055.9	1048.7	1040.3	1039.5	1045.4	1046.2	1047.1	1037.4	1008.5	971.6
25°	1046.6	1048.7	1041.6	1034.1	1038.7	1054.2	1057.5	1060.9	1053.3	1029.0	995.9
27.5°	1078.5	1076.8	1063.0	1046.6	1049.6	1070.5	1075.1	1078.9	1075.1	1054.2	1026.1
30°	1168.6	1163.2	1135.5	1087.7	1072.6	1087.3	1091.9	1102.4	1102.4	1086.9	1058.8
32.5°	1319.5	1309.0	1258.3	1164.4	1112.0	1103.2	1107.8	1125.0	1133.8	1121.7	1091.1
35°	1502.7	1491.8	1419.3	1293.1	1184.1	1135.1	1133.8	1153.1	1176.6	1149.3	1109.5
37.5°	1686.7	1675.4	1588.2	1446.5	1289.3	1202.1	1194.6	1201.3	1211.4	1161.5	1135.1
40°	1870.7	1857.3	1781.0	1617.9	1418.0	1291.0	1271.3	1241.1	1236.9	1201.3	1184.5
42.5°	2053.0	2040.9	2002.3	1810.3	1572.3	1377.8	1347.6	1295.6	1311.5	1290.2	1275.5
45°	2237.0	2237.9	2196.8	2026.2	1758.4	1537.9	1497.2	1415.9	1453.6	1445.7	1454.1
47.5°	2400.1	2398.0	2383.3	2235.8	1989.3	1744.1	1691.7	1597.4	1662.0	1691.3	1755.4
50°	2558.1	2556.9	2557.7	2473.4	2257.6	1989.3	1931.5	1832.6	1978.0	2079.9	2194.7
52.5°	2784.5	2791.6	2740.9	2718.7	2583.7	2279.0	2215.2	2113.0	2351.5	2512.0	2736.3
55°	3011.6	3005.8	2966.0	2989.0	2924.9	2621.8	2555.2	2473.9	2767.3	2942.9	3279.9
57.5°	3145.4	3147.5	3188.1	3300.9	3346.1	3049.4	2989.0	2926.1	3234.6	3359.1	3763.6
60°	3265.7	3275.3	3392.2	3605.2	3728.0	3574.6	3520.9	3459.7	3663.4	3712.9	4183.6
62.5°	3303.4	3333.1	3537.3	3855.8	4100.2	4167.3	4100.6	3965.6	4071.7	4052.4	4468.2
65°	3115.2	3155.8	3521.8	3949.7	4432.6	4729.8	4687.4	4436.8	4419.6	4303.5	4514.7
67.5°	2619.7	2660.4	3130.3	3752.7	4570.1	5216.8	5174.5	4780.5	4630.8	4327.0	4162.7
70°	1916.8	1942.4	2391.7	3159.6	4293.8	5380.3	5395.0	4948.2	4555.4	4008.0	3417.8
72.5°	1104.5	1161.1	1475.9	2222.8	3507.9	4967.0	5068.9	4599.4	4078.4	3343.6	2389.6
75°	474.9	476.2	682.4	1226.0	2375.8	3992.5	4091.0	3812.7	3202.8	2312.1	1275.9
77.5°	225.9	230.1	300.1	547.4	1307.8	2758.5	3024.2	2693.5	2048.4	1110.8	482.0
80°	146.7	149.6	183.6	271.6	641.3	1599.5	1784.8	1553.8	903.7	396.9	207.9
82.5°	88.9	89.7	122.8	166.0	352.9	724.3	853.8	674.4	385.6	237.7	122.4
85°	54.1	54.5	74.6	102.7	214.2	250.2	256.9	254.8	226.3	155.5	65.4
87.5°	26.0	26.8	38.6	48.6	84.3	77.5	73.4	85.1	106.9	83.8	28.1
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°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	785.5	784.2	781.3	780.1	779.2	779.6	779.2	779.2	779.6	779.6	779.6
5°	789.3	787.2	782.6	782.6	785.1	790.9	796.4	800.6	805.2	804.8	804.8
7.5°	805.6	801.8	796.4	798.1	804.4	813.6	823.2	832.4	841.7	842.5	842.1
10°	829.5	825.7	819.9	822.0	832.0	845.9	858.0	871.4	881.5	884.4	883.6
12.5°	856.8	849.2	844.2	850.1	866.0	884.4	896.2	906.2	913.3	917.5	915.9
15°	884.4	877.3	871.4	883.6	902.9	920.1	925.9	927.6	928.9	933.0	932.2
17.5°	911.2	901.6	899.5	915.4	933.9	941.4	938.1	930.9	925.5	928.9	928.4
20°	935.1	927.6	926.8	942.7	949.8	942.7	928.4	915.9	906.2	907.1	906.6
22.5°	957.8	951.9	952.7	959.5	948.1	923.8	900.3	883.2	872.7	874.8	876.0
25°	982.9	977.1	979.2	968.3	930.9	888.6	854.7	840.0	835.8	840.0	842.9
27.5°	1015.6	1011.8	1010.6	968.7	900.3	836.6	798.1	792.6	796.4	805.6	810.2
30°	1050.8	1050.8	1044.1	961.5	858.4	774.2	740.7	741.5	754.5	767.5	772.1
32.5°	1084.8	1091.9	1070.9	942.3	804.4	713.4	687.8	688.7	700.0	715.9	720.1
35°	1112.9	1133.4	1094.0	907.1	740.7	662.3	643.0	631.7	632.1	644.2	647.6
37.5°	1151.4	1189.6	1107.4	854.7	672.7	618.7	596.9	577.2	564.2	559.2	559.2
40°	1218.5	1274.7	1110.8	777.1	608.6	577.2	546.2	522.7	497.5	474.9	470.7
42.5°	1332.1	1402.9	1104.1	687.8	550.8	531.5	501.3	472.4	437.6	405.7	403.2
45°	1533.3	1569.7	1086.0	595.2	499.2	487.5	458.1	426.7	389.8	361.3	359.2
47.5°	1855.6	1804.1	1062.1	513.0	452.3	448.9	426.3	389.8	352.9	333.2	331.1
50°	2326.3	2172.9	1058.8	453.5	414.5	416.2	397.8	364.2	332.0	315.6	313.1
52.5°	2893.0	2618.5	1081.0	411.6	381.4	387.7	378.5	347.5	319.0	305.1	302.6
55°	3443.0	3019.2	1094.4	378.9	350.4	362.2	363.4	337.4	311.4	297.6	295.9
57.5°	3889.4	3321.0	1034.9	349.2	323.6	341.6	350.8	331.6	307.7	297.2	295.5
60°	4200.0	3463.5	865.6	322.8	303.9	325.3	346.2	332.0	316.9	318.1	319.0
62.5°	4298.9	3400.2	649.3	303.1	290.5	319.8	353.8	349.2	333.6	343.3	345.0
65°	4135.0	3138.6	470.7	287.5	278.7	323.6	376.4	361.7	327.8	334.9	334.9
67.5°	3586.3	2704.0	366.3	273.3	265.3	330.7	399.0	360.5	313.9	322.3	314.8
70°	2844.8	2091.6	305.1	257.4	251.1	320.2	401.1	347.5	297.6	299.3	285.0
72.5°	1887.9	1375.3	262.4	242.3	229.3	288.0	383.9	330.7	281.7	272.0	257.8
75°	925.1	685.7	228.9	223.4	200.8	250.7	360.5	314.8	264.5	249.4	241.4
77.5°	358.4	291.7	195.3	199.5	174.8	220.9	329.5	292.2	241.9	221.3	215.0
80°	174.0	165.6	160.1	166.4	143.8	188.2	301.0	272.5	220.9	198.3	189.0
82.5°	108.1	102.3	122.8	129.5	110.7	171.9	285.4	255.7	194.5	164.3	156.8
85°	54.9	58.7	82.2	88.4	79.2	136.6	235.1	192.0	140.4	116.5	117.4
87.5°	21.0	28.1	43.2	46.5	42.3	72.1	129.5	111.9	90.1	61.2	56.6
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)