

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: P522641

Luminaire Tested: **GALN-SA1D-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522641
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6551 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

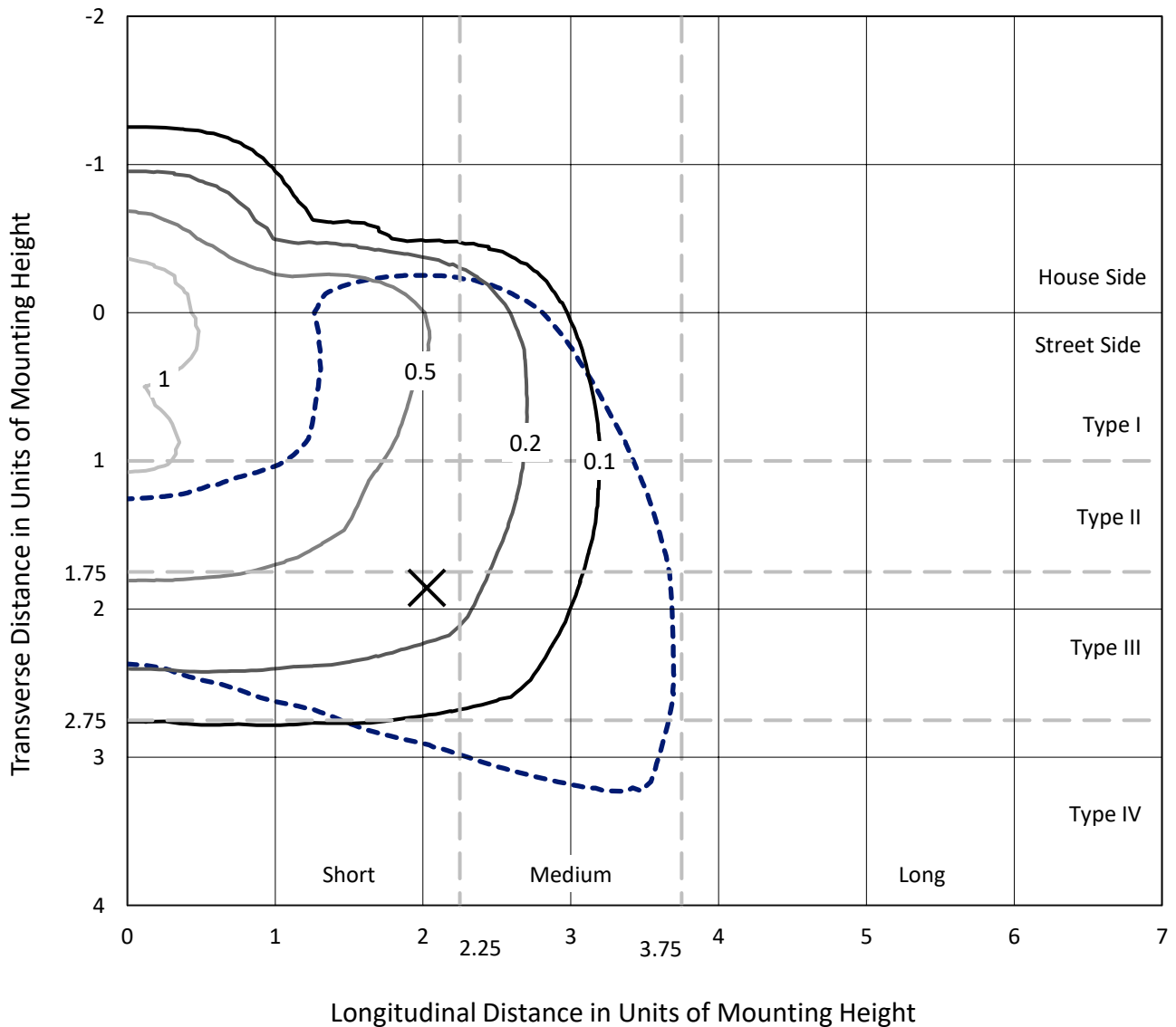
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

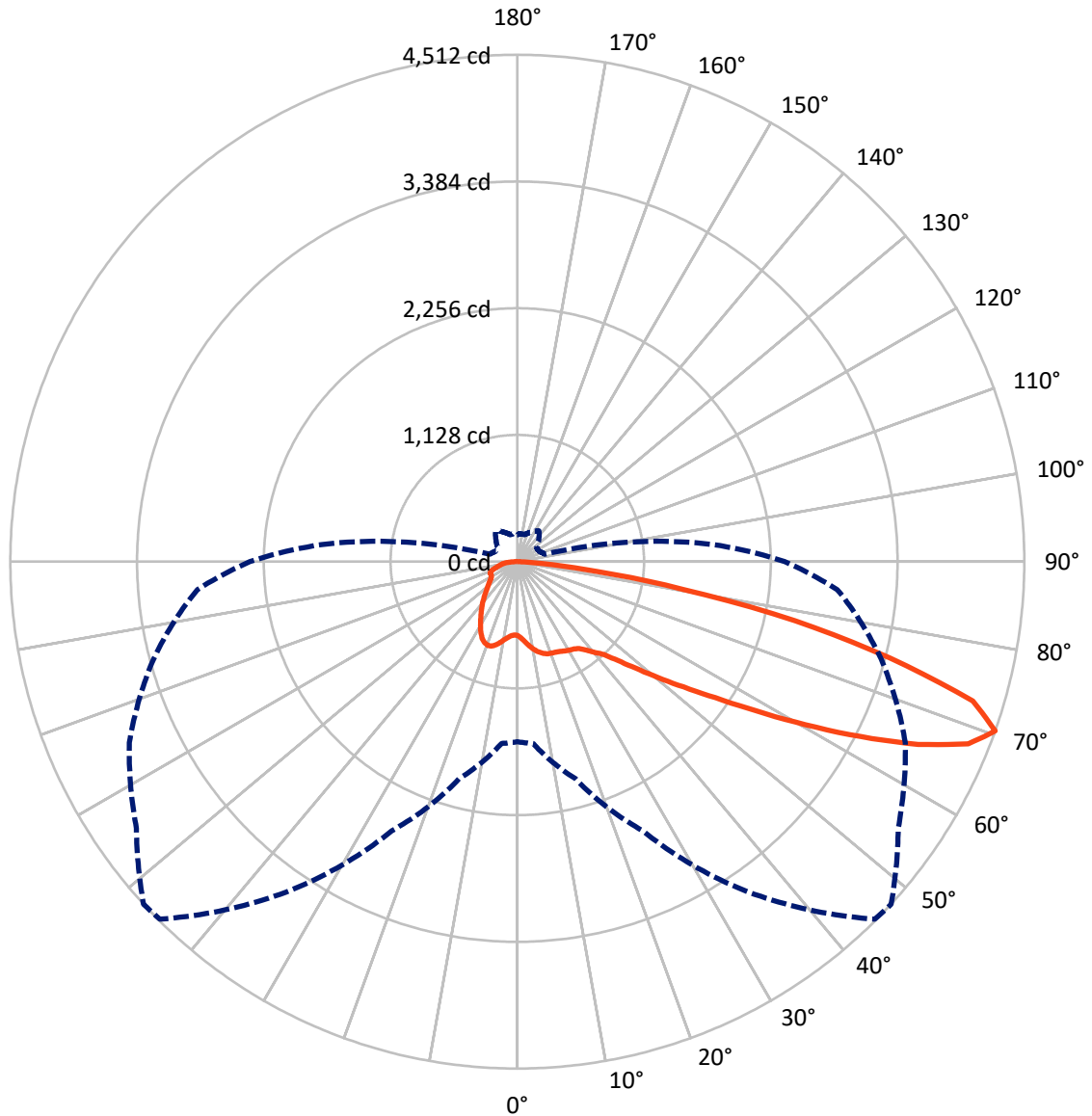
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	1483.3	0.0	1483.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5067.7	0.0	5067.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	6551.0	0.0	6551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.0
10°-20°	226.6	3.5
20°-30°	376.9	5.8
30°-40°	534.2	8.2
40°-50°	788.5	12.0
50°-60°	1365.8	20.8
60°-70°	1929.2	29.4
70°-80°	1109.0	16.9
80°-90°	153.0	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°	6551.0	100.0
0°-180°	6551.0	100.0

Coefficient of Utilization



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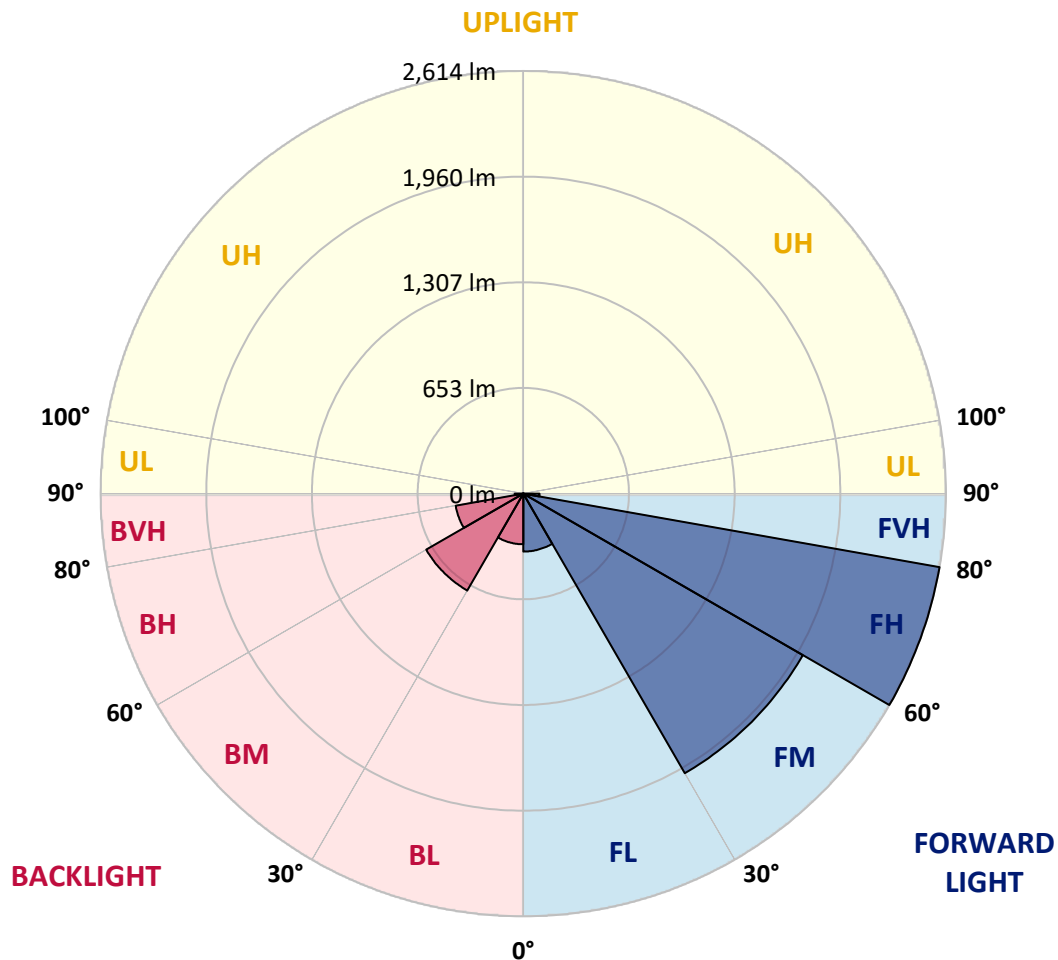
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.2	5.5			
FM	(30°-60°)	1996.0	30.5			
FH	(60°-80°)	2613.6	39.9			G2/5000
FVH	(80°-90°)	100.0	1.5			G1/100
BL	(0°-30°)	313.1	4.8	B1/500		
BM	(30°-60°)	692.5	10.6	B1/1000		
BH	(60°-80°)	424.6	6.5	B1/500		G1/500
BVH	(80°-90°)	53.1	0.8			G1/100
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°	45°	47.5°	55°	65°	75°	85°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	700.1	697.6	697.3	692.0	689.2	683.9	681.8	676.9	671.0	665.0	659.4
5°	755.1	755.1	752.6	745.3	733.7	721.8	716.5	707.1	690.2	676.6	665.0
7.5°	811.5	812.2	807.3	796.5	780.0	760.7	755.8	741.8	717.9	698.0	680.8
10°	860.3	860.3	853.6	838.9	818.2	797.2	792.3	776.5	749.8	724.9	702.5
12.5°	897.4	897.4	888.7	869.4	846.9	828.0	822.4	807.3	782.4	754.7	726.4
15°	921.6	919.9	910.0	888.3	866.6	850.1	846.2	833.6	810.8	782.8	750.9
17.5°	922.7	922.0	912.5	894.3	875.3	864.1	861.7	853.3	835.4	808.7	775.1
20°	902.3	903.7	897.4	884.5	875.3	870.4	869.4	866.6	854.0	829.1	795.4
22.5°	880.6	883.0	877.1	870.1	869.4	874.3	875.0	875.7	867.6	843.4	812.6
25°	875.3	877.1	871.1	864.8	868.7	881.6	884.5	887.3	880.9	860.6	832.9
27.5°	902.0	900.6	889.0	875.3	877.8	895.3	899.2	902.3	899.2	881.6	858.2
30°	977.3	972.8	949.7	909.7	897.1	909.3	913.2	922.0	922.0	909.0	885.5
32.5°	1103.5	1094.8	1052.4	973.8	930.0	922.7	926.5	940.9	948.3	938.1	912.5
35°	1256.7	1247.6	1187.0	1081.5	990.3	949.3	948.3	964.4	984.0	961.2	927.9
37.5°	1410.6	1401.2	1328.3	1209.8	1078.3	1005.4	999.1	1004.7	1013.1	971.4	949.3
40°	1564.5	1553.3	1489.5	1353.1	1185.9	1079.7	1063.2	1038.0	1034.5	1004.7	990.7
42.5°	1717.0	1706.9	1674.6	1514.0	1314.9	1152.3	1127.0	1083.6	1096.9	1079.0	1066.7
45°	1870.9	1871.6	1837.3	1694.6	1470.6	1286.2	1252.2	1184.2	1215.7	1209.1	1216.1
47.5°	2007.3	2005.5	1993.3	1869.9	1663.7	1458.7	1414.8	1336.0	1390.0	1414.5	1468.1
50°	2139.4	2138.4	2139.1	2068.6	1888.1	1663.7	1615.4	1532.6	1654.3	1739.5	1835.5
52.5°	2328.7	2334.7	2292.3	2273.7	2160.8	1906.0	1852.7	1767.1	1966.6	2100.9	2288.4
55°	2518.7	2513.8	2480.5	2499.8	2446.2	2192.7	2137.0	2069.0	2314.4	2461.2	2743.1
57.5°	2630.6	2632.3	2666.3	2760.6	2798.5	2550.3	2499.8	2447.2	2705.2	2809.3	3147.6
60°	2731.2	2739.2	2837.0	3015.1	3117.8	2989.5	2944.7	2893.5	3063.9	3105.2	3498.9
62.5°	2762.7	2787.6	2958.3	3224.8	3429.1	3485.2	3429.5	3316.6	3405.3	3389.2	3736.9
65°	2605.3	2639.3	2945.4	3303.3	3707.1	3955.7	3920.3	3710.6	3696.3	3599.2	3775.8
67.5°	2191.0	2225.0	2617.9	3138.5	3822.1	4363.0	4327.6	3998.1	3872.9	3618.8	3481.4
70°	1603.1	1624.5	2000.3	2642.5	3591.1	4499.7	4512.0	4138.3	3809.8	3352.0	2858.4
72.5°	923.7	971.0	1234.3	1859.0	2933.8	4154.1	4239.3	3846.6	3410.9	2796.4	1998.5
75°	397.2	398.2	570.7	1025.4	1986.9	3339.0	3421.4	3188.7	2678.6	1933.7	1067.1
77.5°	188.9	192.5	251.0	457.8	1093.7	2307.0	2529.3	2252.7	1713.2	929.0	403.1
80°	122.7	125.1	153.5	227.2	536.3	1337.7	1492.7	1299.5	755.8	332.0	173.9
82.5°	74.3	75.0	102.7	138.8	295.2	605.8	714.1	564.0	322.5	198.8	102.4
85°	45.2	45.6	62.4	85.9	179.1	209.3	214.9	213.1	189.3	130.1	54.7
87.5°	21.7	22.4	32.3	40.7	70.5	64.9	61.3	71.2	89.4	70.1	23.5
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°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	656.9	655.9	653.4	652.4	651.7	652.0	651.7	651.7	652.0	652.0	652.0
5°	660.1	658.3	654.5	654.5	656.6	661.5	666.1	669.6	673.4	673.1	673.1
7.5°	673.8	670.6	666.1	667.5	672.7	680.4	688.5	696.2	703.9	704.6	704.3
10°	693.7	690.6	685.7	687.4	695.9	707.4	717.6	728.8	737.2	739.7	739.0
12.5°	716.5	710.2	706.0	710.9	724.2	739.7	749.5	757.9	763.9	767.4	766.0
15°	739.7	733.7	728.8	739.0	755.1	769.5	774.4	775.8	776.8	780.3	779.6
17.5°	762.1	754.0	752.3	765.6	781.0	787.3	784.5	778.6	774.0	776.8	776.5
20°	782.1	775.8	775.1	788.4	794.4	788.4	776.5	766.0	757.9	758.6	758.3
22.5°	801.0	796.1	796.8	802.4	793.0	772.6	753.0	738.6	729.9	731.6	732.7
25°	822.1	817.1	818.9	809.8	778.6	743.2	714.8	702.5	699.0	702.5	705.0
27.5°	849.4	846.2	845.2	810.1	753.0	699.7	667.5	662.9	666.1	673.8	677.6
30°	878.8	878.8	873.2	804.2	717.9	647.5	619.4	620.1	631.0	641.9	645.7
32.5°	907.2	913.2	895.7	788.0	672.7	596.6	575.3	576.0	585.4	598.7	602.3
35°	930.7	947.9	914.9	758.6	619.4	553.9	537.8	528.3	528.6	538.8	541.6
37.5°	963.0	994.9	926.2	714.8	562.6	517.4	499.2	482.7	471.8	467.6	467.6
40°	1019.1	1066.0	929.0	649.9	509.0	482.7	456.8	437.1	416.1	397.2	393.7
42.5°	1114.1	1173.3	923.4	575.3	460.6	444.5	419.3	395.1	366.0	339.3	337.2
45°	1282.3	1312.8	908.3	497.8	417.5	407.7	383.2	356.9	326.0	302.2	300.4
47.5°	1551.9	1508.8	888.3	429.1	378.2	375.4	356.5	326.0	295.2	278.7	276.9
50°	1945.6	1817.3	885.5	379.3	346.7	348.1	332.7	304.6	277.6	264.0	261.9
52.5°	2419.5	2189.9	904.1	344.2	319.0	324.3	316.6	290.6	266.8	255.2	253.1
55°	2879.5	2525.0	915.3	316.9	293.1	302.9	303.9	282.2	260.5	248.9	247.5
57.5°	3252.8	2777.4	865.5	292.0	270.6	285.7	293.4	277.3	257.3	248.5	247.1
60°	3512.6	2896.6	723.9	269.9	254.2	272.0	289.6	277.6	265.0	266.1	266.8
62.5°	3595.3	2843.7	543.0	253.5	242.9	267.5	295.9	292.0	279.0	287.1	288.5
65°	3458.2	2625.0	393.7	240.5	233.1	270.6	314.8	302.5	274.1	280.1	280.1
67.5°	2999.4	2261.4	306.4	228.6	221.9	276.6	333.7	301.5	262.6	269.6	263.3
70°	2379.2	1749.3	255.2	215.2	210.0	267.8	335.5	290.6	248.9	250.3	238.4
72.5°	1578.9	1150.2	219.4	202.6	191.8	240.8	321.1	276.6	235.6	227.5	215.6
75°	773.7	573.5	191.4	186.8	167.9	209.6	301.5	263.3	221.2	208.6	201.9
77.5°	299.7	244.0	163.4	166.9	146.2	184.7	275.5	244.3	202.3	185.1	179.8
80°	145.5	138.5	133.9	139.2	120.2	157.4	251.7	227.9	184.7	165.8	158.1
82.5°	90.4	85.5	102.7	108.3	92.5	143.7	238.7	213.8	162.7	137.4	131.1
85°	45.9	49.1	68.7	74.0	66.3	114.3	196.7	160.6	117.4	97.5	98.2
87.5°	17.5	23.5	36.1	38.9	35.4	60.3	108.3	93.6	75.4	51.2	47.3
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)