

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: P450226

Luminaire Tested: **GALN-SA1A-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4207 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

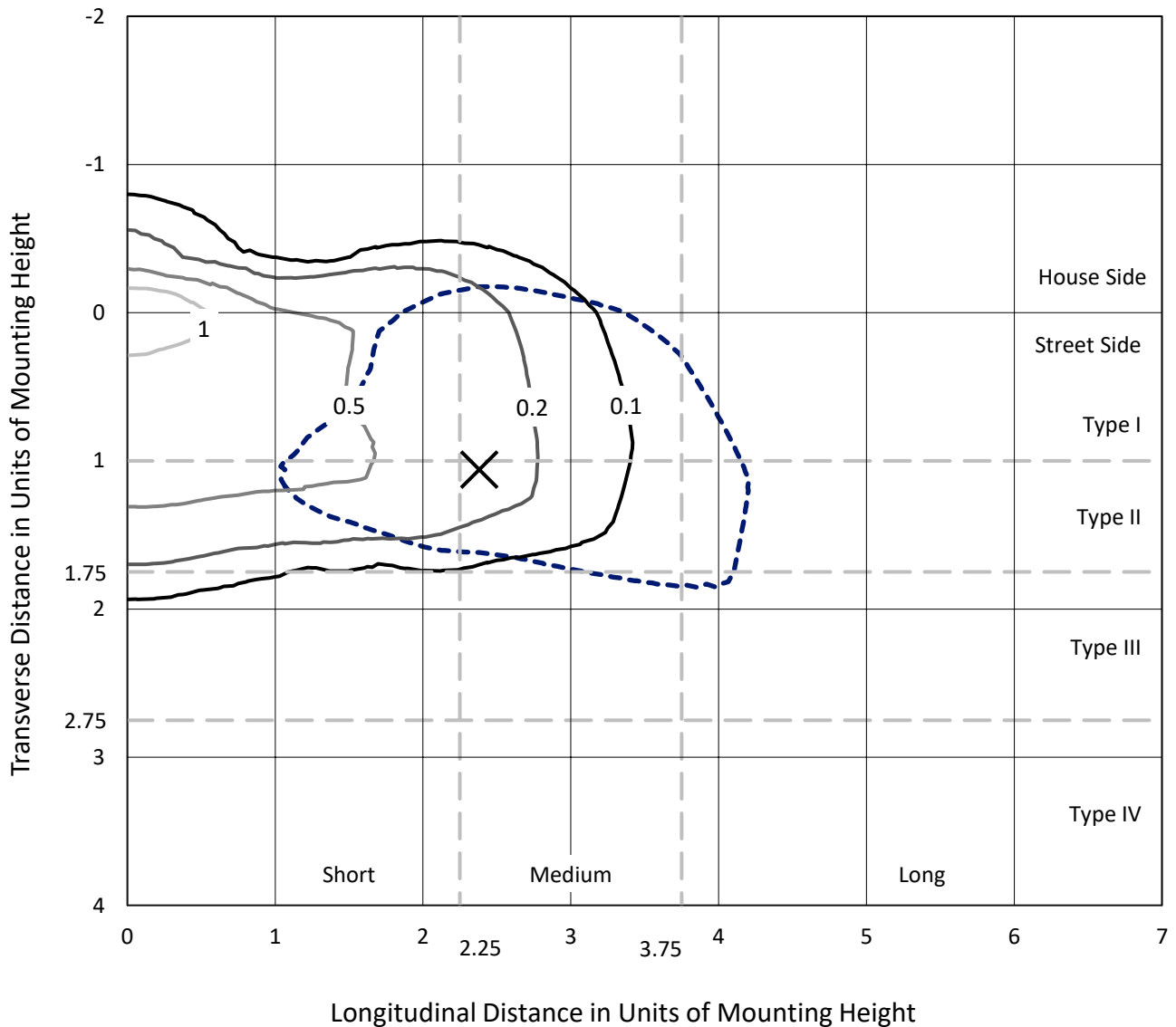
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

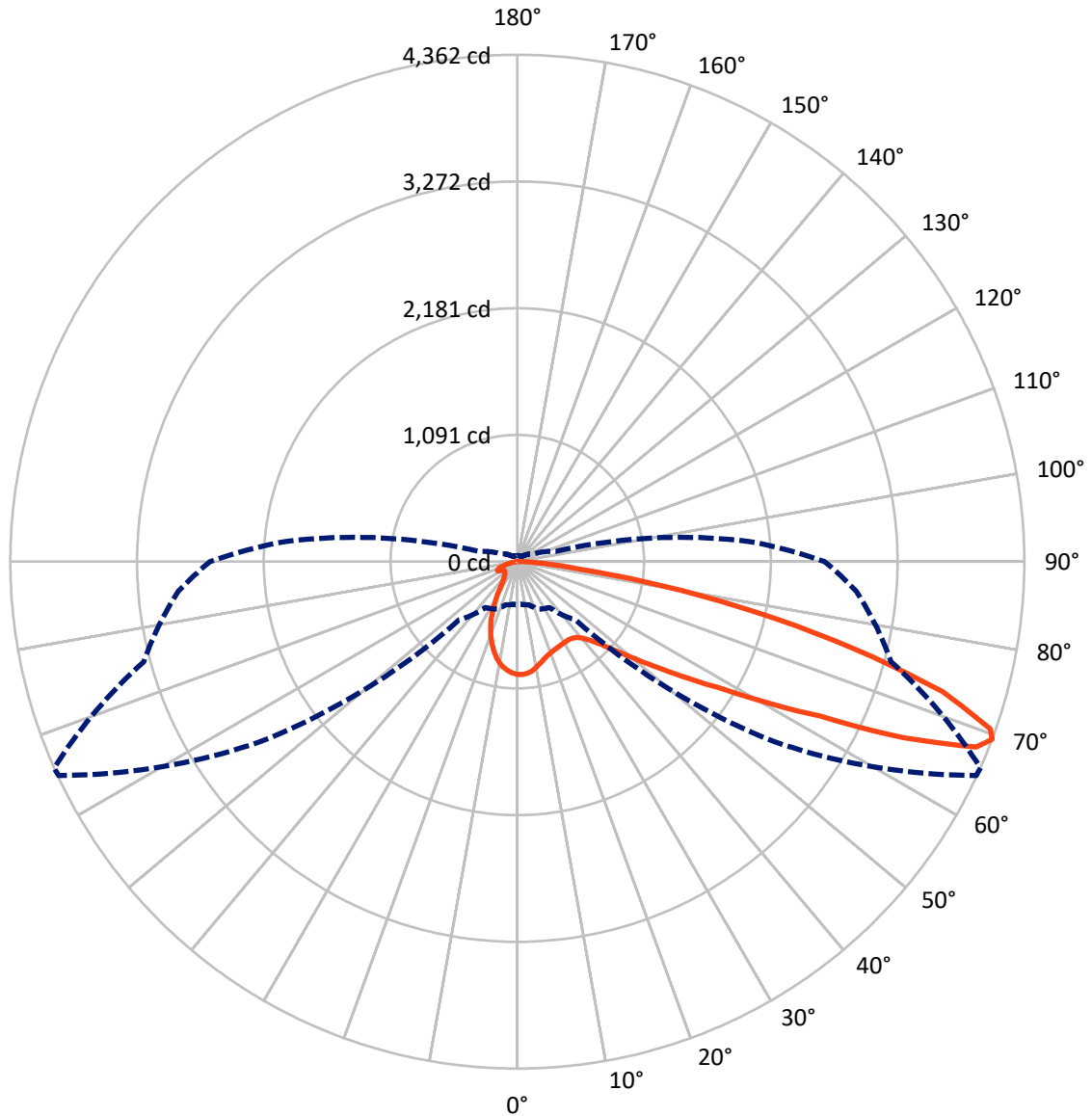
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.2	0.0	791.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3415.8	0.0	3415.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	4207.0	0.0	4207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.0
10°-20°	200.1	4.8
20°-30°	272.4	6.5
30°-40°	366.1	8.7
40°-50°	546.6	13.0
50°-60°	869.5	20.7
60°-70°	1069.4	25.4
70°-80°	695.8	16.5
80°-90°	102.8	2.4
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°	4207.0	100.0
0°-180°	4207.0	100.0

Coefficient of Utilization



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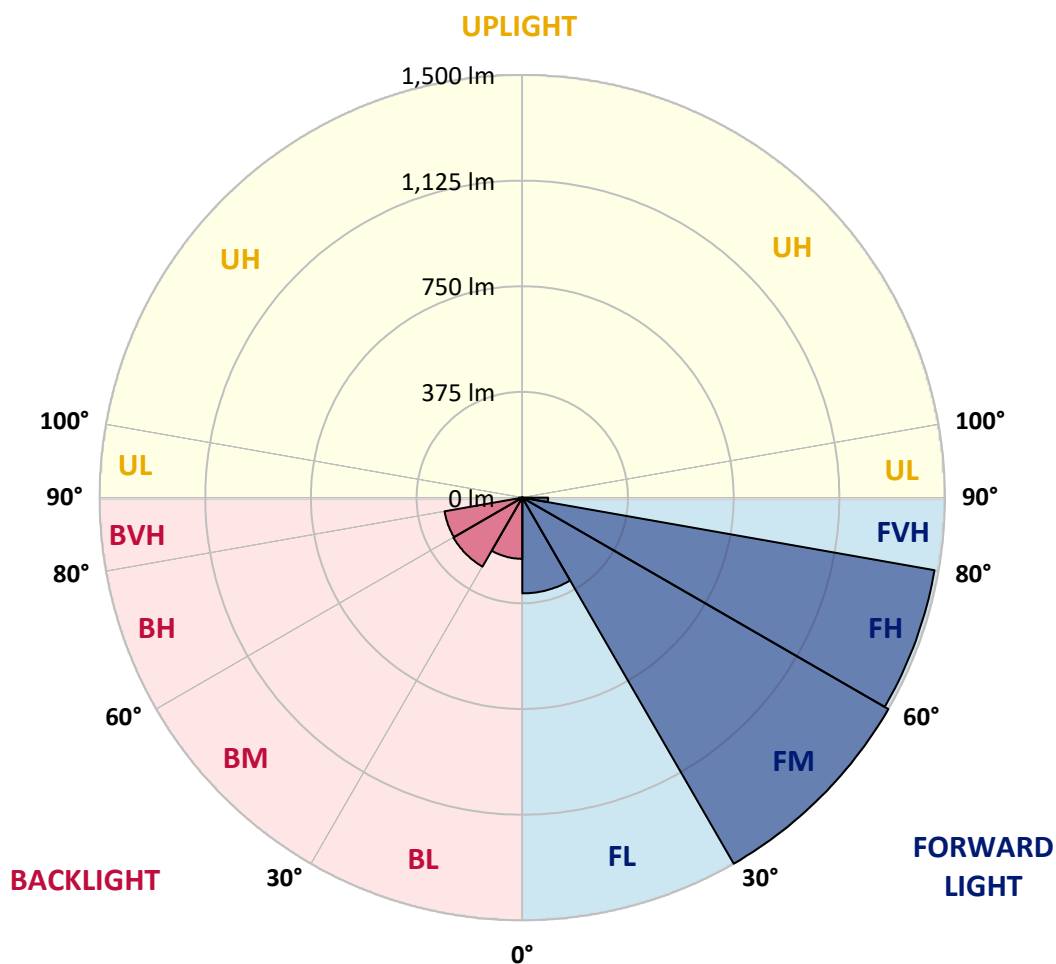
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.7	8.1			
FM	(30°-60°)	1499.7	35.6			
FH	(60°-80°)	1485.1	35.3			G1/1800
FVH	(80°-90°)	91.4	2.2			G1/100
BL	(0°-30°)	217.2	5.2	B1/500		
BM	(30°-60°)	282.5	6.7	B1/1000		
BH	(60°-80°)	280.1	6.7	B1/500		G1/500
BVH	(80°-90°)	11.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5
2.5°	937.5	941.2	945.4	950.1	958.9	963.8	967.3	971.3	971.7	973.8	972.2
5°	868.3	872.7	879.0	887.9	901.2	921.9	943.3	960.8	962.9	972.7	975.5
7.5°	810.5	813.1	818.2	832.4	851.3	874.4	905.6	941.0	946.1	969.4	977.6
10°	763.5	766.0	772.1	786.8	805.4	834.3	868.5	915.1	919.3	959.4	978.0
12.5°	728.3	730.6	737.1	751.6	773.0	800.0	837.8	887.2	893.2	946.1	973.6
15°	701.5	705.9	711.3	723.2	745.8	771.9	808.4	861.5	866.4	932.1	970.6
17.5°	690.1	692.2	695.9	706.9	723.4	749.0	785.8	841.5	847.3	922.4	969.9
20°	690.5	692.6	693.3	699.4	711.3	733.4	769.8	825.7	832.7	913.7	971.0
22.5°	706.4	706.6	704.1	702.0	706.6	725.0	758.3	813.8	821.9	910.0	972.0
25°	730.8	735.0	731.3	721.5	712.9	721.8	753.9	807.3	815.0	904.6	970.8
27.5°	770.5	771.2	768.1	754.8	732.5	726.0	752.0	802.4	808.9	900.7	965.0
30°	823.6	821.5	818.7	804.0	768.8	742.0	756.0	797.9	804.7	894.9	958.0
32.5°	877.4	883.9	881.4	864.1	818.4	773.2	768.8	797.5	803.1	890.4	950.3
35°	934.5	937.5	949.6	940.8	893.9	823.8	792.8	804.7	809.1	890.7	945.0
37.5°	979.2	987.4	1015.8	1023.5	979.4	890.7	831.7	825.2	827.1	902.1	947.1
40°	1033.3	1047.2	1083.8	1115.3	1086.4	977.6	897.9	863.2	865.5	929.6	960.8
42.5°	1101.7	1111.5	1160.7	1203.3	1198.7	1092.4	978.0	925.4	926.5	984.3	999.2
45°	1181.9	1195.9	1251.1	1315.2	1326.1	1222.4	1093.8	1019.5	1018.8	1069.4	1071.0
47.5°	1284.4	1293.0	1347.8	1417.7	1461.9	1385.7	1234.3	1154.6	1147.2	1193.3	1180.0
50°	1378.8	1392.3	1433.7	1510.2	1620.4	1577.0	1419.1	1329.8	1312.4	1355.5	1333.1
52.5°	1418.4	1432.6	1467.5	1562.3	1756.2	1824.4	1653.7	1538.8	1509.7	1542.8	1534.6
55°	1349.6	1368.0	1400.7	1516.0	1815.8	2109.8	1970.1	1780.4	1759.2	1745.0	1747.3
57.5°	1164.9	1182.4	1226.4	1353.6	1744.5	2317.0	2421.8	2091.0	2045.5	1980.1	1991.3
60°	886.7	897.7	920.5	1061.4	1533.2	2370.8	2934.8	2483.5	2454.6	2214.2	2222.1
62.5°	629.7	642.1	657.9	728.3	1122.5	2219.1	3336.5	3031.7	2928.5	2456.7	2449.1
65°	511.4	503.0	522.1	555.0	658.6	1719.8	3426.9	3792.6	3650.5	2776.2	2669.4
67.5°	420.5	411.7	430.5	489.0	500.9	998.3	3101.2	4286.5	4258.1	3123.5	2893.3
69°	372.3	367.6	384.2	450.8	480.9	708.9	2701.6	4355.3	4362.0	3328.3	2927.8
70°	335.5	337.4	353.4	431.5	471.8	584.5	2309.0	4260.4	4317.8	3430.6	2890.5
72.5°	247.0	250.9	273.3	357.4	463.2	496.0	1374.1	3721.3	3822.7	3436.6	2644.3
75°	172.6	170.8	190.6	269.1	437.5	491.6	807.0	2878.0	2992.8	2970.5	2221.9
77.5°	113.0	116.0	131.9	190.1	368.1	487.9	526.1	2041.8	2116.4	1986.6	1314.2
80°	79.7	79.4	88.3	129.8	273.0	468.7	430.8	1287.0	1268.1	780.7	389.8
82.5°	45.7	48.9	59.2	91.3	182.7	412.6	396.3	615.5	561.9	222.5	131.6
85°	25.4	26.6	35.2	55.2	106.7	310.8	346.0	280.0	264.2	93.0	56.6
87.5°	8.2	8.9	14.7	28.0	48.5	146.8	195.9	129.3	119.3	33.5	22.8
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°	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5	971.5
2.5°	972.9	975.7	968.3	961.0	954.5	945.4	937.3	930.5	925.8	925.2	922.8
5°	976.2	976.4	962.2	943.1	924.5	903.9	882.7	867.6	853.4	845.5	841.5
7.5°	978.5	976.4	950.8	919.8	883.9	846.6	809.4	779.5	756.5	747.4	750.9
10°	977.6	971.0	933.5	883.9	831.7	776.0	722.5	680.5	642.1	622.3	622.7
12.5°	972.4	961.7	907.9	843.6	767.0	692.4	610.4	553.8	509.3	483.0	474.8
15°	968.0	949.4	877.9	788.9	693.6	587.1	487.2	417.3	380.0	359.3	359.0
17.5°	963.4	937.5	845.0	730.8	609.2	472.2	367.4	314.1	296.6	298.7	295.2
20°	958.5	923.5	810.8	666.3	506.5	352.3	275.1	253.5	258.4	267.9	269.3
22.5°	952.9	908.6	773.9	595.3	398.4	265.1	223.2	219.9	232.5	247.4	249.5
25°	944.3	890.0	727.6	520.9	307.3	213.6	195.5	197.8	210.1	222.7	224.1
27.5°	932.1	866.9	680.8	428.2	230.9	183.4	178.7	181.7	187.8	195.5	197.3
30°	915.8	840.8	626.9	348.1	185.0	168.2	166.3	168.0	171.5	174.7	175.7
32.5°	899.5	815.7	572.7	266.5	164.9	158.2	156.3	156.3	156.3	156.8	157.0
35°	884.4	791.9	514.4	207.6	154.5	150.3	147.7	144.9	144.4	142.8	142.8
37.5°	876.0	770.2	452.4	173.8	146.8	143.7	140.3	135.6	133.0	133.3	132.8
40°	877.6	756.0	396.1	154.7	140.5	137.2	131.9	126.5	124.9	124.9	124.4
42.5°	896.0	751.4	342.0	144.7	134.4	130.7	123.9	119.1	118.1	117.9	118.4
45°	938.4	762.8	293.6	138.2	129.3	123.7	117.0	112.5	111.6	111.6	111.4
47.5°	1021.1	799.8	258.8	134.0	125.6	118.4	111.4	106.9	105.3	104.8	104.8
50°	1149.7	880.2	233.0	130.2	120.9	113.5	106.2	101.1	98.5	98.3	98.1
52.5°	1328.4	1005.5	223.0	127.4	115.8	108.3	100.4	95.5	92.3	91.6	91.1
55°	1537.4	1180.5	236.7	125.3	110.4	102.5	94.4	89.2	86.2	84.8	84.6
57.5°	1779.5	1390.6	288.9	122.5	105.5	96.2	88.3	83.2	79.9	78.3	77.8
60°	1996.8	1606.6	380.0	120.9	101.3	89.5	81.3	76.6	73.6	72.0	71.8
62.5°	2235.6	1812.6	488.8	125.3	99.5	82.9	74.8	70.6	68.0	66.4	66.4
65°	2490.8	2018.7	560.8	140.3	102.3	77.8	67.8	64.3	62.0	60.8	60.6
67.5°	2662.7	2090.0	462.0	155.6	109.3	72.2	61.0	58.2	56.8	55.7	55.7
69°	2644.1	1999.9	340.8	159.6	111.4	69.4	57.3	55.2	53.4	52.9	52.4
70°	2585.1	1897.1	285.6	157.0	109.7	66.9	55.0	52.4	50.8	50.3	50.1
72.5°	2302.5	1645.3	212.7	136.5	93.4	58.0	48.7	46.4	45.0	44.3	44.3
75°	1913.0	1344.7	166.1	108.6	73.2	48.9	41.7	39.8	38.7	38.2	38.0
77.5°	1072.2	750.9	119.3	85.0	55.4	39.6	34.9	33.3	32.2	31.7	31.7
80°	298.7	214.6	70.1	56.1	37.7	30.1	27.7	26.6	24.9	23.8	24.5
82.5°	112.5	93.0	40.1	33.8	24.0	20.0	19.3	18.4	17.7	16.1	16.1
85°	54.7	45.2	25.6	17.9	13.3	10.5	10.0	9.6	9.1	7.9	8.2
87.5°	18.9	20.0	11.2	6.5	4.0	2.6	2.1	1.2	1.2	1.2	1.2
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)