

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: P454094

Luminaire Tested: **GALN-SA5A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18302 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

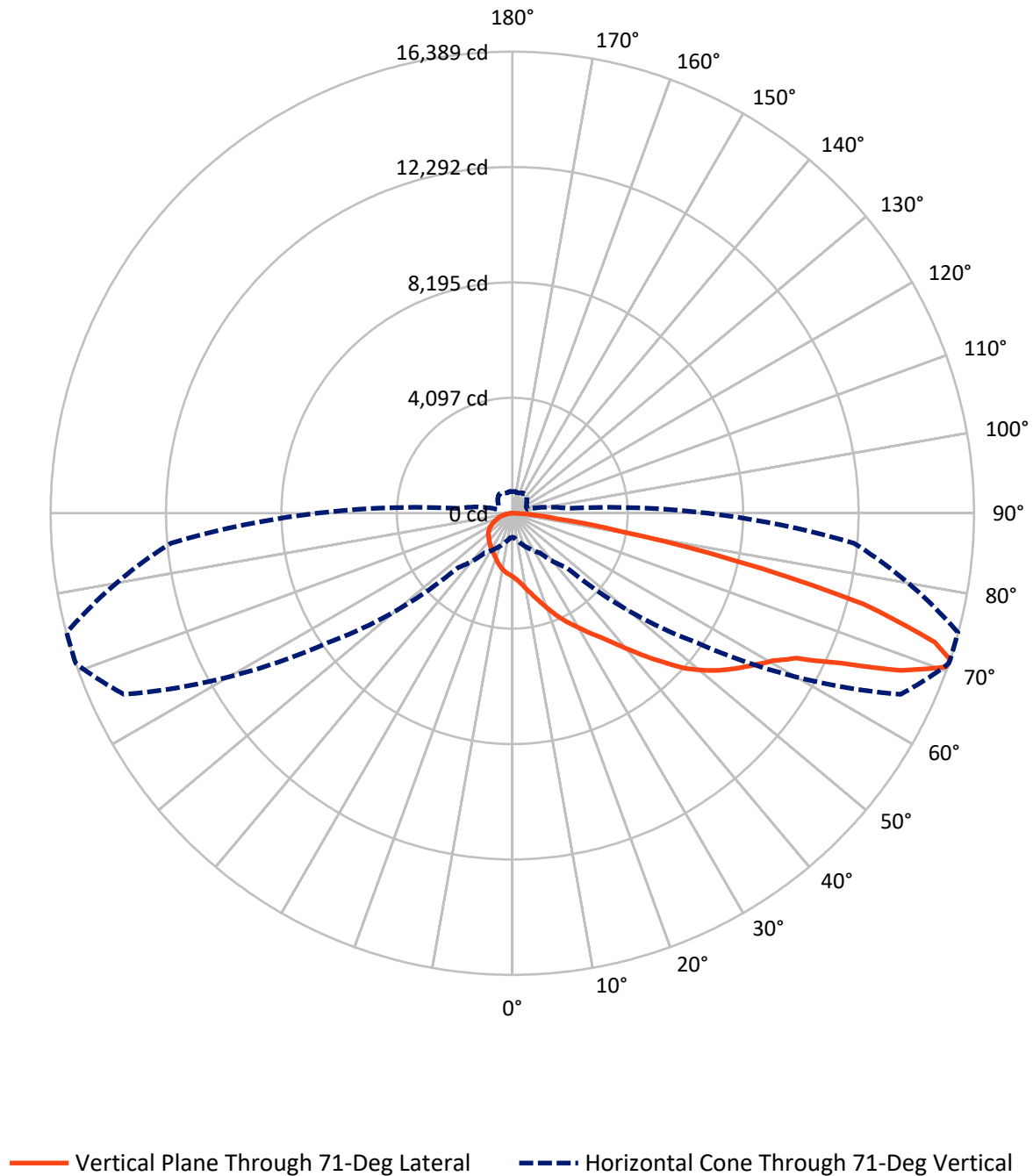
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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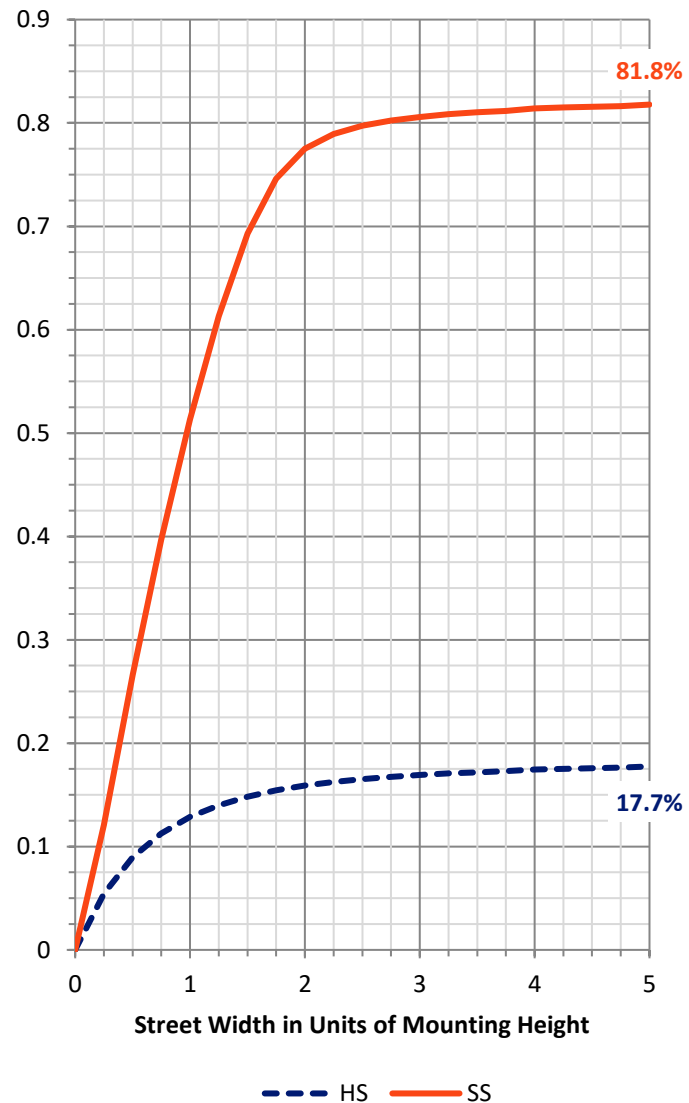
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3291.6	0.0	3291.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	15010.4	0.0	15010.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	18302.0	0.0	18302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.2
10°-20°	732.7	4.0
20°-30°	1280.5	7.0
30°-40°	1904.6	10.4
40°-50°	2806.2	15.3
50°-60°	3928.7	21.5
60°-70°	4394.2	24.0
70°-80°	2684.1	14.7
80°-90°	345.3	1.9
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°	18302.0	100.0
0°-180°	18302.0	100.0

Coefficient of Utilization



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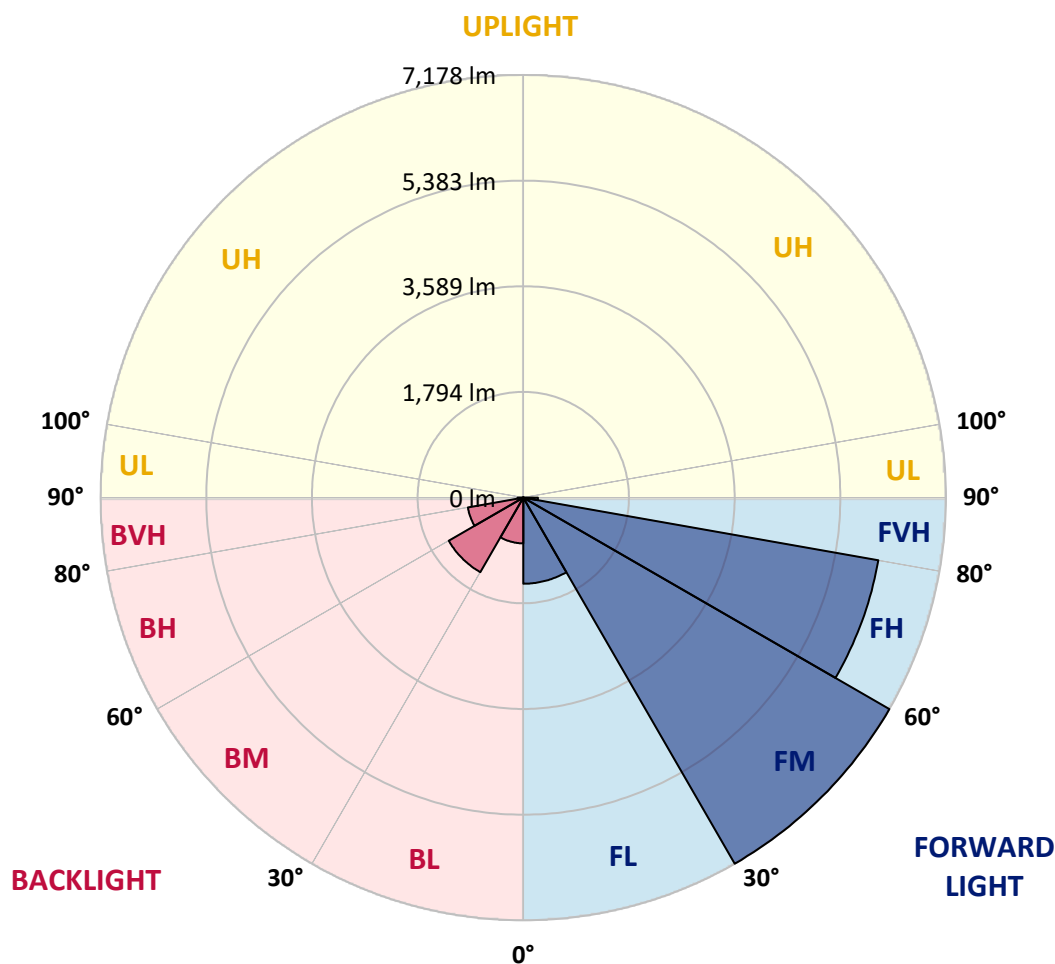
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1462.3	8.0			
FM	(30°-60°)	7177.7	39.2			
FH	(60°-80°)	6122.0	33.4			G3/7500
FVH	(80°-90°)	248.4	1.4			G3/500
BL	(0°-30°)	776.5	4.2	B2/1000		
BM	(30°-60°)	1461.9	8.0	B2/2500		
BH	(60°-80°)	956.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	96.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2
2.5°	2493.7	2481.6	2482.6	2465.5	2443.4	2419.2	2385.0	2354.8	2330.7	2316.6	2275.4
5°	2763.3	2751.2	2736.1	2698.9	2682.8	2623.4	2548.0	2479.6	2427.3	2398.1	2315.6
7.5°	2981.5	2978.5	2974.5	2953.4	2912.1	2829.6	2765.3	2646.6	2569.1	2513.8	2373.0
10°	3116.3	3121.4	3124.4	3128.4	3111.3	3068.0	2979.5	2829.6	2731.1	2660.6	2447.4
12.5°	3184.7	3189.8	3206.9	3244.1	3267.2	3262.2	3189.8	3042.9	2907.1	2814.6	2526.9
15°	3227.0	3235.0	3265.2	3314.5	3391.9	3441.2	3406.0	3270.2	3121.4	3011.7	2621.4
17.5°	3273.2	3282.3	3315.5	3385.9	3487.5	3594.1	3632.4	3515.7	3353.7	3223.0	2727.0
20°	3299.4	3311.5	3358.8	3451.3	3570.0	3724.9	3851.7	3790.3	3613.2	3468.4	2848.8
22.5°	3341.7	3351.7	3391.9	3490.5	3632.4	3826.5	4070.9	4057.9	3901.9	3714.8	2982.5
25°	3456.3	3472.4	3492.5	3551.9	3688.7	3930.1	4253.0	4343.5	4181.6	3972.4	3105.3
27.5°	3672.6	3685.7	3684.7	3692.7	3770.2	4019.6	4410.9	4626.2	4459.2	4232.9	3224.0
30°	3919.0	3924.1	3928.1	3910.0	3927.1	4111.2	4555.8	4905.9	4738.9	4500.5	3327.6
32.5°	4218.8	4228.9	4194.7	4148.4	4134.3	4247.0	4675.5	5185.5	5069.8	4772.1	3430.2
35°	4572.9	4599.0	4529.6	4448.2	4390.8	4442.1	4836.4	5471.2	5408.8	5119.1	3566.0
37.5°	4977.3	5009.5	4945.1	4785.1	4703.7	4717.7	5046.7	5824.3	5837.3	5514.4	3768.2
40°	5308.2	5350.5	5352.5	5126.1	5002.4	5018.5	5313.2	6204.5	6354.4	6003.3	4006.6
42.5°	5526.5	5567.7	5611.0	5478.2	5348.5	5440.0	5624.1	6616.9	6935.8	6596.8	4339.5
45°	5765.9	5803.1	5827.3	5766.9	5694.5	5931.9	5999.3	7055.5	7555.4	7259.7	4703.7
47.5°	6043.5	6084.8	6107.9	6050.6	6023.4	6363.4	6403.7	7464.9	8217.3	7903.5	5106.0
50°	6413.7	6444.9	6432.8	6396.6	6390.6	6694.4	6791.9	7848.2	8763.5	8596.6	5523.5
52.5°	6874.4	6911.6	6924.7	6873.4	6850.3	6930.8	7104.8	8197.2	9260.5	9192.1	5969.1
55°	7153.1	7212.4	7411.6	7492.1	7547.4	7236.6	7441.8	8582.5	9706.1	9819.7	6447.9
57.5°	6796.0	6872.4	7318.0	7720.4	8240.5	8001.1	7919.6	8984.8	10151.7	10428.3	7021.3
60°	5924.8	5941.9	6516.3	7257.7	8303.8	8983.8	8916.4	9624.6	10634.5	11041.9	7776.7
62.5°	4110.2	4146.4	4825.4	6008.3	7521.2	9337.9	10612.4	10729.1	11326.6	11960.3	8884.2
65°	2119.5	2072.2	2690.8	3776.2	5670.3	8497.0	11986.5	12760.0	12827.4	13396.8	10443.4
67.5°	1304.7	1325.8	1615.5	2205.0	3352.7	6175.3	11842.6	15241.6	14886.5	15160.2	11890.9
70°	979.8	1005.9	1205.1	1508.9	2044.0	3530.8	9524.0	15843.2	16339.1	16268.7	12331.5
71°	852.0	879.2	1086.4	1373.1	1717.1	2725.0	8024.2	15213.5	16389.4	16377.3	12165.5
72.5°	726.3	743.4	905.3	1162.8	1447.5	1910.2	6028.5	13644.2	15690.3	16091.6	11573.1
75°	570.4	583.4	655.9	887.2	1139.7	1172.9	3235.0	10229.2	12886.8	13651.3	9634.7
77.5°	464.7	473.8	511.0	658.9	879.2	830.9	1697.0	6658.2	8073.5	8843.0	5675.4
80°	369.2	379.2	401.4	446.6	658.9	592.5	809.8	3373.8	3899.9	3891.9	2265.3
82.5°	286.7	289.7	315.9	327.9	450.7	420.5	438.6	1428.4	1582.3	1634.6	817.8
85°	181.1	190.1	279.6	251.5	269.6	246.4	216.3	567.3	699.1	689.1	326.9
87.5°	55.3	58.3	94.6	106.6	119.7	107.6	79.5	167.0	204.2	221.3	81.5
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°	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2
2.5°	2259.3	2248.2	2209.0	2176.8	2146.6	2113.4	2085.3	2077.2	2070.2	2067.2	2066.2
5°	2280.4	2247.2	2169.8	2106.4	2056.1	2009.8	1980.6	1967.6	1954.5	1954.5	1958.5
7.5°	2310.6	2250.2	2130.5	2036.0	1972.6	1929.3	1908.2	1906.2	1909.2	1912.2	1913.3
10°	2343.8	2248.2	2073.2	1955.5	1899.2	1879.1	1880.1	1897.2	1913.3	1925.3	1927.3
12.5°	2376.0	2236.2	2005.8	1880.1	1843.8	1847.9	1876.0	1914.3	1945.4	1962.5	1963.5
15°	2412.2	2217.0	1924.3	1808.6	1796.6	1827.7	1880.1	1938.4	1985.7	2013.8	2016.9
17.5°	2442.4	2184.8	1838.8	1739.2	1754.3	1811.7	1884.1	1959.5	2016.9	2052.1	2058.1
20°	2476.6	2143.6	1750.3	1672.8	1716.1	1793.5	1876.0	1957.5	2016.9	2051.1	2059.1
22.5°	2503.7	2085.3	1665.8	1618.5	1681.9	1771.4	1848.9	1914.3	1962.5	1980.6	1992.7
25°	2514.8	2011.8	1586.3	1574.3	1654.7	1735.2	1787.5	1824.7	1839.8	1837.8	1842.8
27.5°	2508.8	1927.3	1517.9	1539.1	1620.5	1678.9	1705.0	1702.0	1674.8	1649.7	1661.8
30°	2483.6	1826.7	1460.6	1502.8	1576.3	1608.5	1604.4	1565.2	1513.9	1466.6	1469.6
32.5°	2438.3	1718.1	1407.3	1461.6	1513.9	1528.0	1500.8	1449.5	1376.1	1314.7	1305.7
35°	2400.1	1614.5	1360.0	1414.3	1451.5	1444.5	1418.3	1352.0	1285.6	1231.2	1222.2
37.5°	2394.1	1526.0	1314.7	1361.0	1382.1	1372.1	1339.9	1283.5	1259.4	1218.2	1213.1
40°	2426.3	1463.6	1268.5	1304.7	1314.7	1306.7	1271.5	1239.3	1261.4	1251.4	1251.4
42.5°	2513.8	1430.4	1227.2	1248.3	1256.4	1262.4	1237.3	1210.1	1237.3	1191.0	1175.9
45°	2652.6	1431.4	1190.0	1193.0	1217.2	1238.3	1221.2	1180.9	1166.9	1074.3	1056.2
47.5°	2856.8	1465.6	1159.8	1140.7	1184.0	1219.2	1195.0	1136.7	1074.3	1013.0	1001.9
50°	3095.2	1527.0	1132.7	1086.4	1139.7	1195.0	1176.9	1108.5	1044.1	1006.9	999.9
52.5°	3359.8	1604.4	1099.5	1026.0	1085.4	1184.0	1180.9	1104.5	1016.0	990.8	984.8
55°	3686.7	1680.9	1058.2	955.6	1037.1	1174.9	1169.9	1071.3	1009.9	991.8	989.8
57.5°	4066.9	1791.5	998.9	884.2	981.8	1137.7	1126.6	1051.2	989.8	976.7	975.7
60°	4679.5	1963.5	914.4	818.8	925.4	1072.3	1086.4	1017.0	957.6	954.6	953.6
62.5°	5485.3	2205.0	826.9	751.4	860.1	987.8	1028.0	970.7	923.4	938.5	940.5
65°	6597.8	2408.2	736.3	694.1	787.6	906.3	972.7	927.5	885.2	914.4	914.4
67.5°	7323.1	2412.2	653.8	634.7	714.2	837.9	914.4	876.2	835.9	885.2	887.2
70°	7172.2	2113.4	585.4	572.4	642.8	764.5	850.0	819.8	773.5	817.8	801.7
71°	6928.7	1947.5	558.3	548.2	614.6	729.3	819.8	794.7	748.4	777.6	768.5
72.5°	6540.5	1690.9	514.0	516.0	572.4	685.0	777.6	751.4	705.1	721.2	718.2
75°	5528.5	1476.7	439.6	448.6	491.9	609.6	693.1	673.0	625.7	625.7	622.7
77.5°	3456.3	1032.1	365.1	370.2	417.5	522.1	595.5	578.4	533.1	518.0	514.0
80°	1289.6	533.1	285.7	291.7	320.9	411.4	492.9	476.8	430.5	413.4	397.3
82.5°	487.9	267.6	210.2	205.2	236.4	313.8	386.3	367.2	330.9	289.7	277.6
85°	184.1	132.8	128.8	124.7	138.8	186.1	239.4	235.4	197.2	168.0	165.0
87.5°	48.3	43.3	50.3	37.2	39.2	35.2	36.2	15.1	7.0	3.0	2.0
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)