

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: P451064

Luminaire Tested: **GALN-SA1D-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6281 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

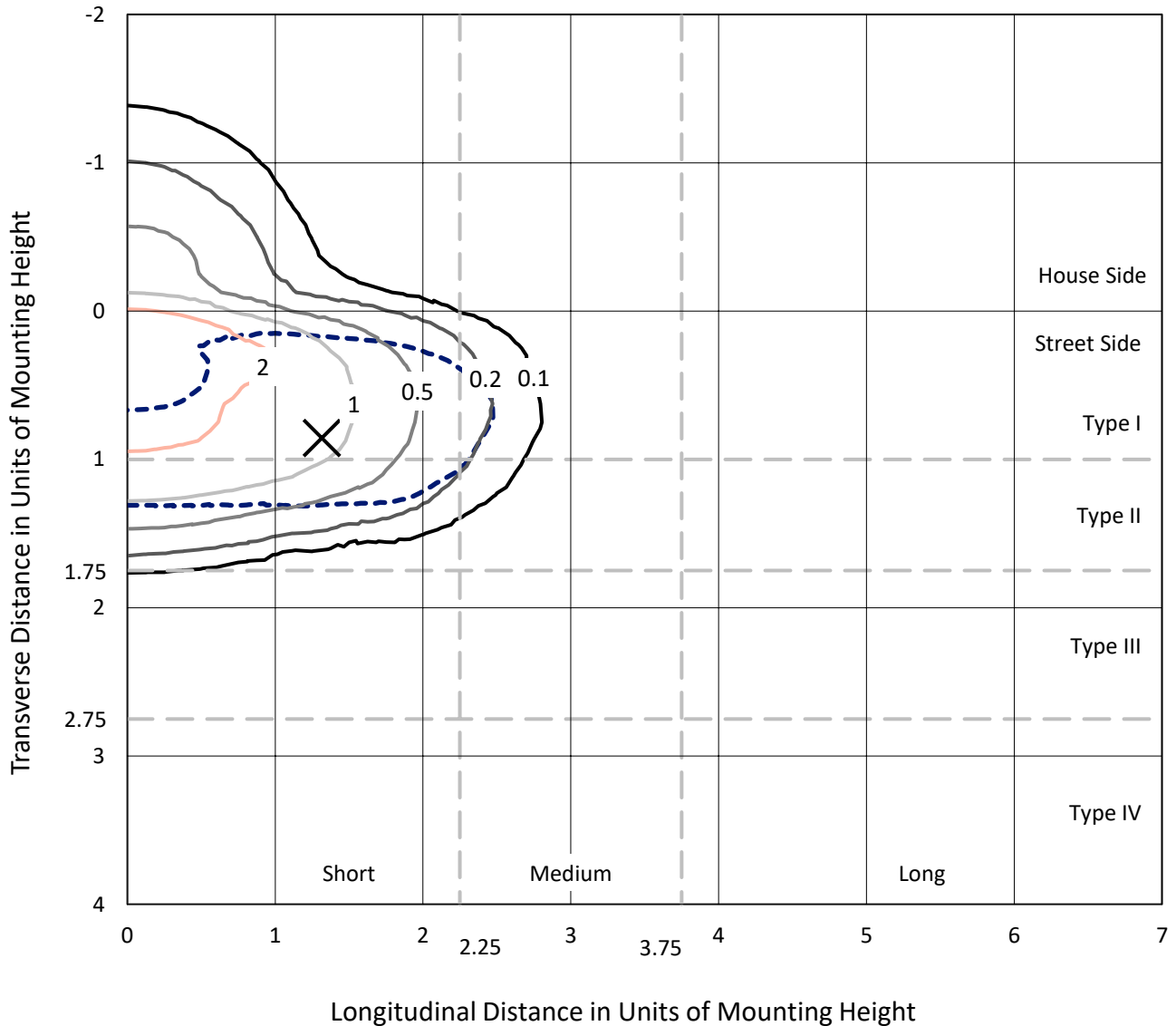
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451064
 CATALOG NUMBER: GALN-SA1D-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

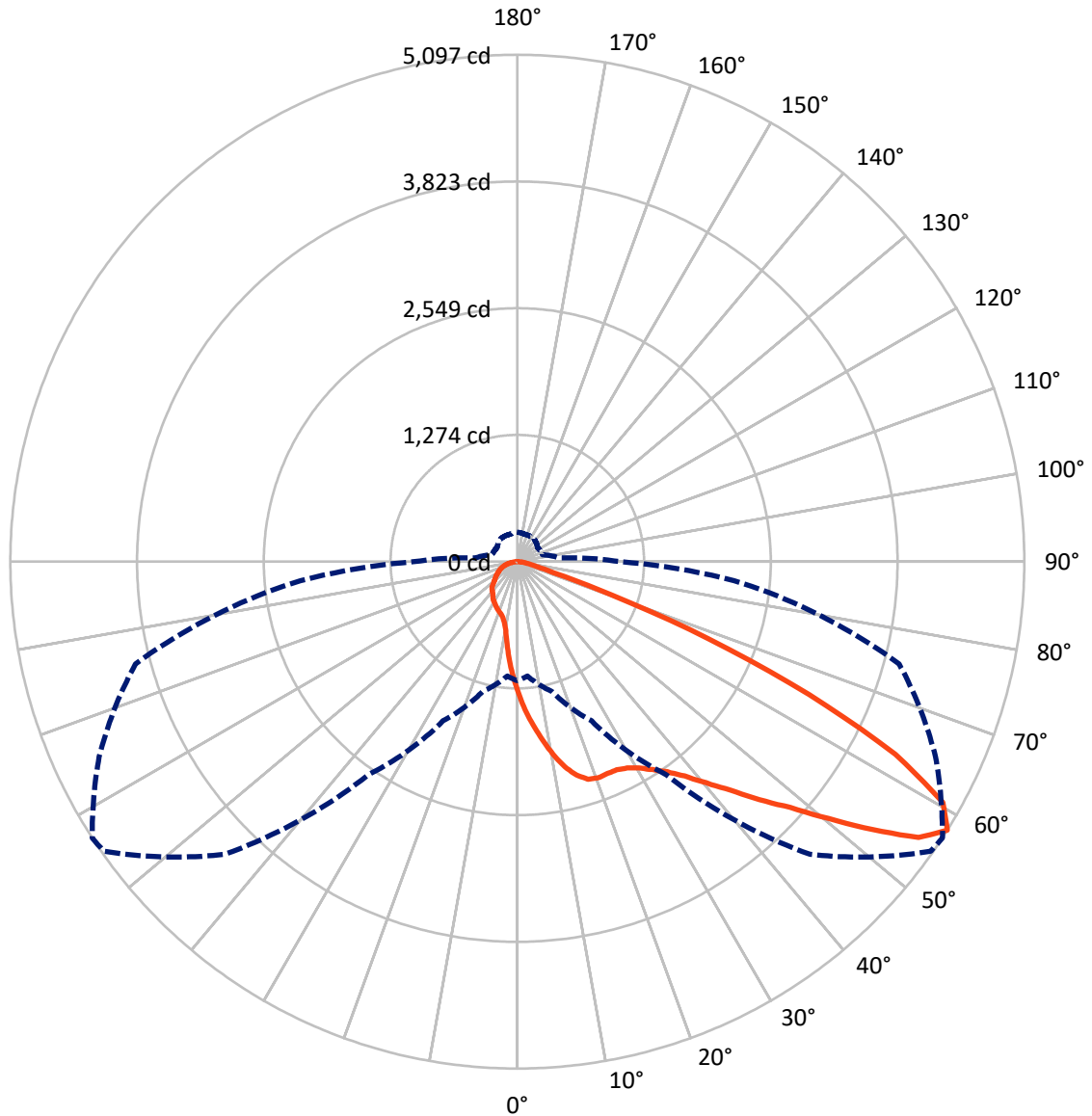
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P451064
CATALOG NUMBER: GALN-SA1D-830-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P451064

CATALOG NUMBER: GALN-SA1D-830-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	955.2	0.0	955.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	5325.8	0.0	5325.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	6281.0	0.0	6281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	2.0
10°-20°	373.8	6.0
20°-30°	620.6	9.9
30°-40°	934.8	14.9
40°-50°	1403.6	22.3
50°-60°	1573.2	25.0
60°-70°	920.7	14.7
70°-80°	272.3	4.3
80°-90°	55.0	0.9
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°	6281.0	100.0
0°-180°	6281.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451064

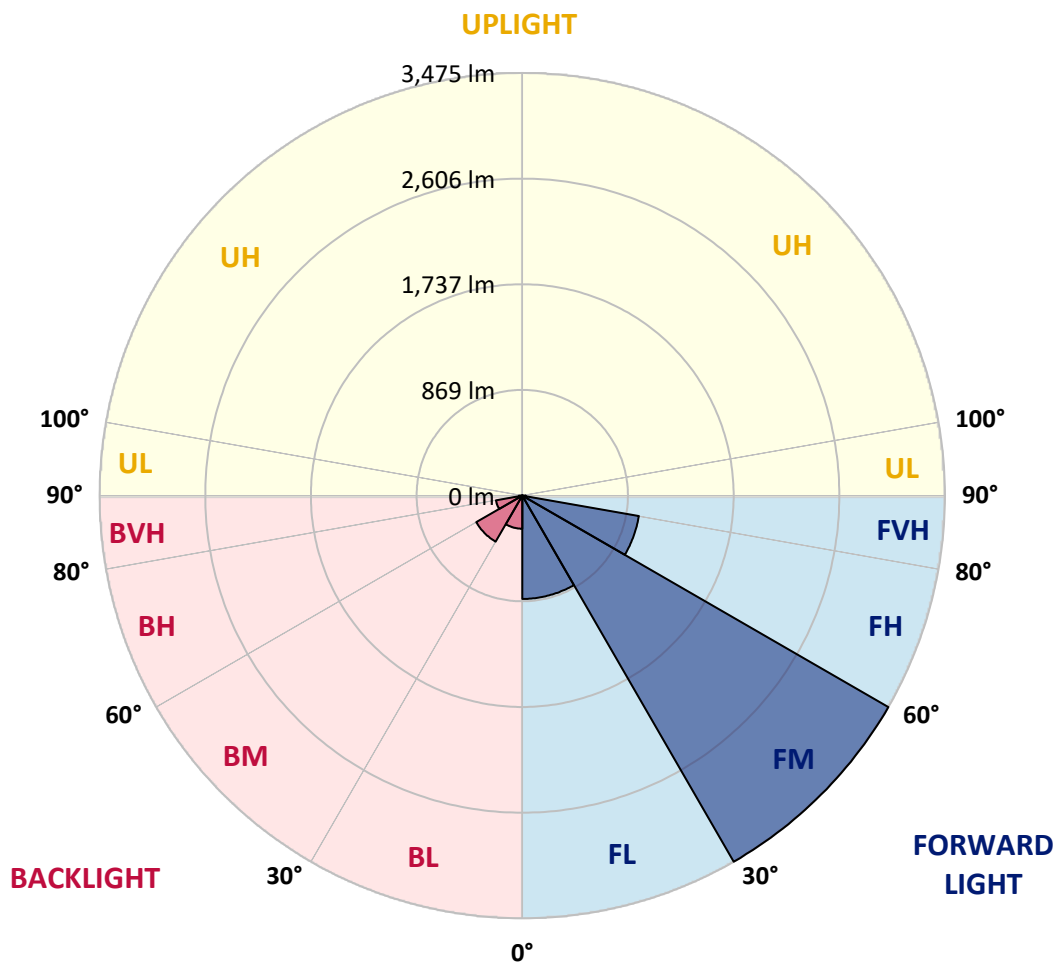
CATALOG NUMBER: GALN-SA1D-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	849.0	13.5			
FM	(30°-60°)	3474.9	55.3			
FH	(60°-80°)	973.3	15.5			G1/1800
FVH	(80°-90°)	28.6	0.5			G1/100
BL	(0°-30°)	272.2	4.3	B1/500		
BM	(30°-60°)	436.7	7.0	B1/1000		
BH	(60°-80°)	219.8	3.5	B1/500		G1/500
BVH	(80°-90°)	26.5	0.4			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 II Short





REPORT NUMBER: P451064

CATALOG NUMBER: GALN-SA1D-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6
2.5°	1639.7	1621.8	1607.7	1595.3	1579.1	1535.5	1491.8	1491.1	1456.4	1402.8	1347.8
5°	1906.8	1882.7	1885.8	1847.3	1808.8	1745.6	1653.1	1648.3	1574.3	1473.9	1371.8
7.5°	2080.8	2081.1	2071.5	2049.5	2007.9	1936.0	1831.2	1807.4	1704.6	1552.3	1399.3
10°	2071.8	2081.1	2097.3	2116.2	2128.9	2093.5	1997.9	1969.0	1835.3	1647.2	1429.9
12.5°	1952.9	1967.3	1990.4	2037.8	2114.5	2172.9	2140.3	2116.9	1986.6	1741.8	1463.6
15°	1878.6	1887.2	1899.9	1931.9	2014.4	2154.4	2238.9	2226.6	2129.3	1848.7	1501.4
17.5°	1855.9	1864.5	1868.6	1888.2	1947.0	2090.4	2277.8	2299.8	2255.8	1947.0	1539.6
20°	1878.6	1882.7	1882.7	1894.4	1940.5	2052.9	2276.1	2320.4	2359.6	2065.0	1575.4
22.5°	1938.1	1939.8	1937.4	1941.5	1975.9	2063.2	2259.9	2314.9	2443.5	2165.0	1603.2
25°	2034.7	2037.5	2021.6	2012.0	2037.1	2108.6	2268.8	2319.4	2509.2	2260.6	1621.8
27.5°	2144.4	2147.8	2128.6	2106.2	2117.9	2164.7	2303.9	2349.3	2558.3	2354.8	1633.5
30°	2278.8	2280.2	2247.9	2221.1	2213.5	2248.2	2363.7	2406.0	2619.5	2465.8	1651.0
32.5°	2416.3	2426.7	2385.1	2347.2	2334.5	2345.2	2452.1	2493.0	2692.4	2585.2	1679.2
35°	2603.4	2605.1	2555.2	2509.2	2467.2	2481.0	2565.2	2594.8	2793.2	2723.0	1719.1
37.5°	2836.8	2852.6	2783.9	2697.9	2646.4	2626.4	2702.1	2734.4	2934.5	2892.2	1779.2
40°	3096.1	3101.9	3043.1	2989.5	2895.3	2837.5	2889.8	2924.8	3108.8	3094.0	1849.0
42.5°	3259.0	3271.8	3276.2	3270.7	3199.9	3102.9	3122.9	3139.4	3315.1	3283.4	1920.6
45°	3314.0	3333.0	3396.9	3532.4	3539.9	3444.3	3397.9	3413.8	3539.9	3474.6	1989.0
47.5°	3222.9	3255.3	3373.2	3651.0	3859.0	3866.2	3726.3	3691.6	3744.8	3633.1	2038.5
50°	2987.4	2994.3	3174.8	3577.1	4008.6	4269.5	4124.8	4060.1	3939.4	3750.3	2072.5
52.5°	2623.0	2630.9	2782.2	3233.6	3916.4	4551.4	4591.0	4475.5	4137.1	3841.5	2094.9
55°	1947.0	1992.8	2159.2	2595.5	3479.8	4525.0	4961.6	4895.9	4376.1	3913.7	2129.9
57.5°	1197.2	1155.2	1352.6	1765.8	2617.1	4161.2	5076.1	5097.4	4639.1	3974.2	2188.7
60°	550.8	559.0	640.5	910.8	1595.3	3255.3	4781.1	4915.9	4784.5	3972.1	2203.5
62.5°	379.6	372.0	351.4	399.9	727.5	2058.8	4038.5	4266.8	4493.0	3848.7	2144.7
65°	339.3	331.8	291.9	278.5	334.2	897.4	2935.8	3224.0	3783.0	3537.2	1998.3
67.5°	317.0	306.7	265.4	239.3	238.6	357.2	1731.1	2078.0	2805.9	2990.5	1731.5
70°	293.6	285.4	244.5	215.6	203.2	224.5	760.9	996.0	1821.9	2155.0	1348.8
72.5°	270.2	260.6	223.8	192.9	176.7	168.1	291.6	379.2	1029.4	1292.1	826.9
75°	236.2	231.4	200.1	174.7	157.1	135.8	185.0	211.1	492.3	593.4	415.0
77.5°	206.6	201.5	177.8	152.7	139.9	110.4	131.3	143.4	207.7	240.7	187.4
80°	151.3	156.4	149.9	134.8	124.8	86.6	88.4	98.3	123.4	136.5	114.5
82.5°	95.9	105.6	115.5	103.8	94.5	68.4	61.2	65.0	84.2	89.4	50.9
85°	40.2	40.9	67.0	63.3	54.0	40.6	36.8	38.9	45.0	47.1	23.7
87.5°	15.5	15.1	23.7	22.0	16.8	11.7	11.7	13.1	17.9	16.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451064
 CATALOG NUMBER: GALN-SA1D-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6
2.5°	1324.0	1299.6	1251.1	1191.0	1147.0	1097.5	1053.8	1022.5	1010.8	1005.3	995.0
5°	1323.0	1274.9	1174.5	1069.3	984.7	898.0	824.8	777.4	773.2	741.6	738.5
7.5°	1323.3	1249.8	1089.9	935.2	806.2	717.5	657.0	641.2	622.3	617.5	619.9
10°	1324.4	1217.8	999.1	802.5	677.7	619.6	596.9	590.7	591.4	593.4	593.8
12.5°	1325.8	1186.9	904.9	701.7	605.5	581.4	579.0	584.5	590.3	594.8	595.8
15°	1327.5	1151.4	813.1	620.6	569.4	567.3	575.2	584.5	592.7	599.3	600.3
17.5°	1325.4	1110.2	736.1	570.7	549.4	559.4	572.5	584.1	591.7	597.9	598.6
20°	1320.6	1064.1	661.8	535.7	537.0	553.2	567.3	578.3	586.6	589.6	592.1
22.5°	1302.0	1009.1	597.2	508.5	522.3	544.6	561.5	568.0	558.7	552.2	553.9
25°	1270.4	937.6	537.0	486.5	508.8	532.6	549.8	533.9	526.4	523.6	525.0
27.5°	1230.9	859.2	491.7	463.5	491.7	519.2	514.3	511.6	508.2	503.7	504.7
30°	1188.2	782.5	453.1	445.6	473.1	488.9	491.0	495.4	491.7	484.8	487.5
32.5°	1148.7	710.3	423.9	430.5	460.0	457.6	473.1	478.2	460.7	437.7	438.7
35°	1115.0	643.3	401.9	415.7	437.7	438.7	454.2	436.3	417.4	406.4	407.1
37.5°	1089.6	591.0	387.5	403.0	409.1	422.2	414.0	404.7	402.3	394.7	395.0
40°	1074.4	545.3	378.2	393.0	392.0	400.9	374.4	383.7	387.1	384.7	385.1
42.5°	1059.3	513.0	368.6	379.2	378.9	361.4	355.5	363.4	372.4	373.4	372.7
45°	1047.3	487.9	358.6	358.3	365.1	337.6	335.9	340.7	353.4	359.6	359.3
47.5°	1033.9	466.9	343.5	333.8	335.9	322.8	320.1	322.2	337.6	347.6	350.3
50°	1017.0	445.9	324.6	311.5	302.9	309.1	309.8	310.1	325.6	336.9	339.3
52.5°	1003.6	430.1	302.9	293.3	283.0	296.7	301.9	302.6	311.8	321.1	322.8
55°	1011.5	421.2	281.6	274.7	265.4	284.0	294.0	295.3	297.4	304.3	305.3
57.5°	1035.2	423.2	264.4	255.5	248.6	268.9	285.7	286.7	285.4	293.6	295.0
60°	1042.5	422.2	251.7	234.1	230.0	252.7	273.7	275.7	275.4	287.4	289.8
62.5°	1012.2	409.1	239.0	216.3	213.5	236.2	256.8	265.1	266.8	284.0	287.1
65°	941.0	382.3	222.1	197.4	197.4	218.7	240.7	252.0	256.8	279.9	283.3
67.5°	847.2	350.7	204.9	181.2	180.5	201.8	223.5	235.2	242.7	274.0	276.1
70°	703.1	308.1	183.6	163.7	163.7	182.9	202.5	216.6	227.6	263.0	263.0
72.5°	481.7	256.1	157.8	143.7	144.1	161.9	181.9	197.7	210.8	241.0	241.7
75°	304.6	200.1	129.6	122.4	123.8	140.6	161.2	177.8	203.9	238.3	239.3
77.5°	161.9	140.6	103.1	101.4	103.1	118.6	141.7	164.3	204.6	206.6	203.2
80°	104.9	99.7	81.5	78.0	78.7	95.6	126.2	156.1	164.3	166.4	158.8
82.5°	57.1	63.3	57.8	54.3	54.3	74.6	107.6	124.1	117.9	98.0	93.5
85°	24.4	29.6	29.9	26.1	25.1	46.1	72.2	67.7	62.9	60.2	59.5
87.5°	6.9	9.6	9.6	7.2	5.5	12.7	14.4	4.1	0.0	0.3	0.7
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)