

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: P458546

Luminaire Tested: **GALN-SA1B-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458546
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-SA1B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5416 lumens
Efficiency: N/A
Efficacy: 123.1 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

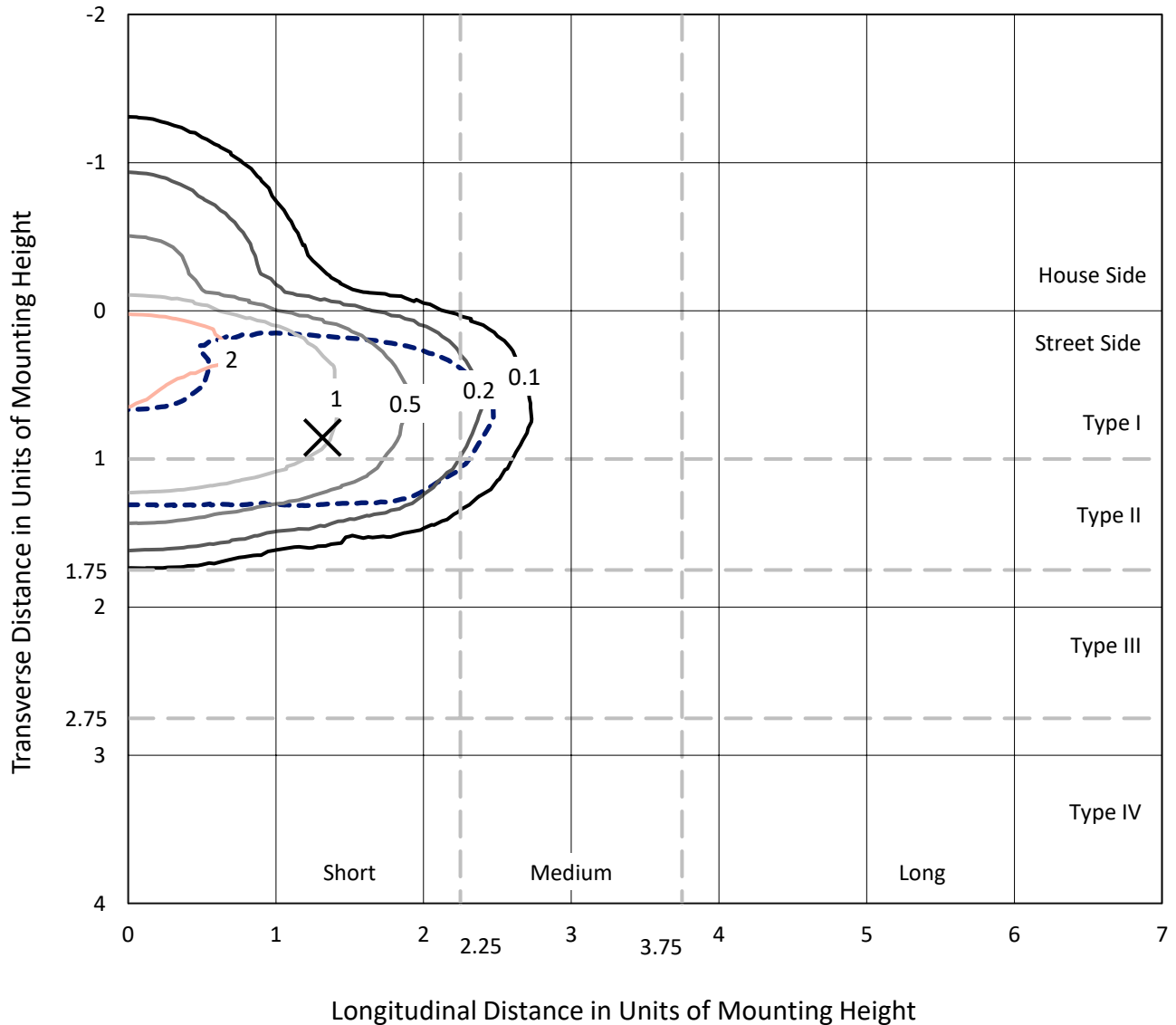
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

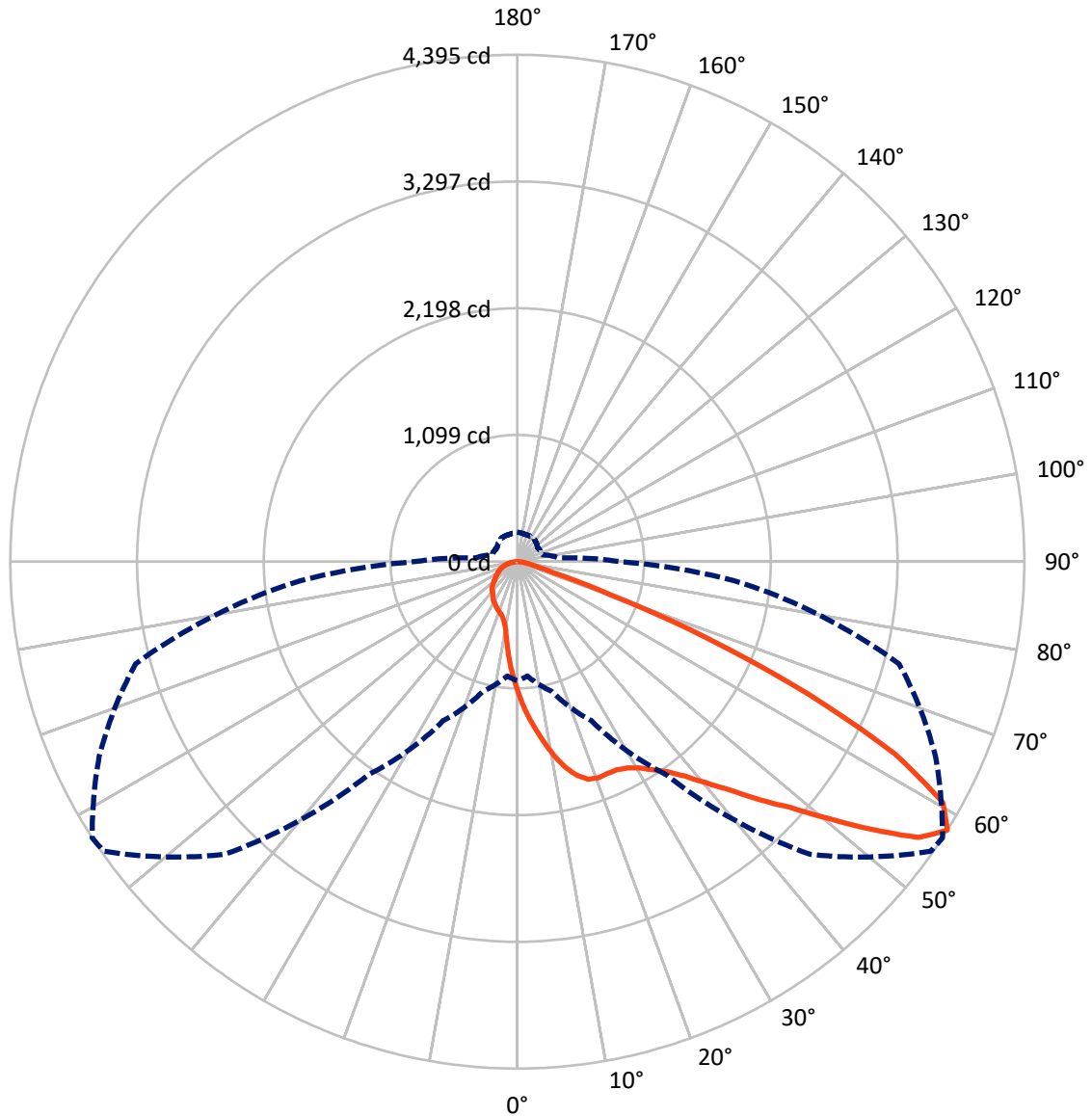
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.6	0.0	823.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4592.4	0.0	4592.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	5416.0	0.0	5416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	2.0
10°-20°	322.3	6.0
20°-30°	535.2	9.9
30°-40°	806.1	14.9
40°-50°	1210.3	22.3
50°-60°	1356.6	25.0
60°-70°	793.9	14.7
70°-80°	234.8	4.3
80°-90°	47.5	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°	5416.0	100.0
0°-180°	5416.0	100.0

Coefficient of Utilization



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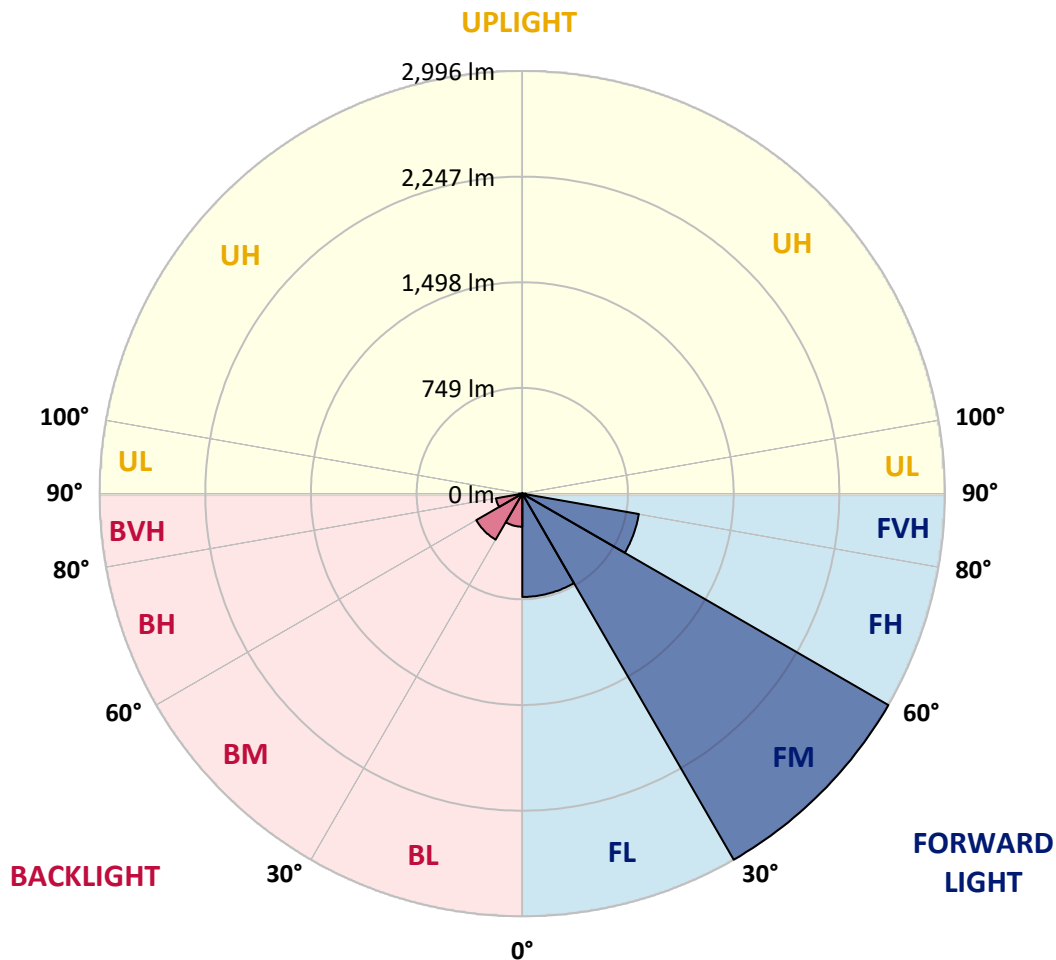
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.1	13.5			
FM	(30°-60°)	2996.4	55.3			
FH	(60°-80°)	839.3	15.5			G1/1800
FVH	(80°-90°)	24.6	0.5			G1/100
BL	(0°-30°)	234.7	4.3	B1/500		
BM	(30°-60°)	376.6	7.0	B1/1000		
BH	(60°-80°)	189.5	3.5	B1/500		G1/500
BVH	(80°-90°)	22.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8
2.5°	1413.9	1398.4	1386.3	1375.6	1361.7	1324.0	1286.4	1285.8	1255.8	1209.6	1162.1
5°	1644.2	1623.5	1626.1	1592.9	1559.7	1505.2	1425.4	1421.3	1357.5	1271.0	1182.9
7.5°	1794.2	1794.5	1786.2	1767.2	1731.4	1669.4	1579.0	1558.5	1469.9	1338.5	1206.6
10°	1786.5	1794.5	1808.4	1824.8	1835.7	1805.2	1722.8	1697.9	1582.5	1420.4	1233.0
12.5°	1683.9	1696.4	1716.2	1757.2	1823.3	1873.7	1845.5	1825.3	1713.0	1501.9	1262.1
15°	1619.9	1627.3	1638.3	1665.8	1737.0	1857.7	1930.6	1919.9	1836.0	1594.1	1294.7
17.5°	1600.3	1607.7	1611.3	1628.2	1678.9	1802.5	1964.1	1983.1	1945.1	1678.9	1327.6
20°	1619.9	1623.5	1623.5	1633.5	1673.3	1770.2	1962.6	2000.9	2034.7	1780.6	1358.4
22.5°	1671.2	1672.7	1670.6	1674.1	1703.8	1779.1	1948.7	1996.1	2107.0	1866.9	1382.4
25°	1754.5	1756.9	1743.2	1734.9	1756.6	1818.2	1956.4	2000.0	2163.6	1949.3	1398.4
27.5°	1849.1	1852.0	1835.4	1816.2	1826.2	1866.6	1986.6	2025.8	2206.0	2030.5	1408.5
30°	1965.0	1966.2	1938.3	1915.2	1908.7	1938.6	2038.2	2074.7	2258.8	2126.3	1423.6
32.5°	2083.6	2092.5	2056.6	2024.0	2013.0	2022.2	2114.4	2149.7	2321.6	2229.1	1447.9
35°	2244.8	2246.3	2203.3	2163.6	2127.4	2139.3	2211.9	2237.4	2408.5	2348.0	1482.3
37.5°	2446.1	2459.8	2400.5	2326.4	2281.9	2264.7	2329.9	2357.8	2530.3	2493.9	1534.2
40°	2669.7	2674.7	2624.0	2577.8	2496.5	2446.7	2491.8	2522.0	2680.7	2667.9	1594.4
42.5°	2810.2	2821.2	2825.0	2820.3	2759.2	2675.6	2692.8	2707.0	2858.5	2831.3	1656.1
45°	2857.6	2873.9	2929.1	3045.9	3052.4	2970.0	2930.0	2943.6	3052.4	2996.1	1715.1
47.5°	2779.1	2806.9	2908.6	3148.2	3327.5	3333.8	3213.1	3183.2	3229.1	3132.8	1757.8
50°	2576.0	2581.9	2737.6	3084.4	3456.5	3681.5	3556.7	3501.0	3396.9	3233.9	1787.1
52.5°	2261.7	2268.6	2399.0	2788.3	3377.1	3924.6	3958.7	3859.1	3567.4	3312.4	1806.4
55°	1678.9	1718.3	1861.8	2238.0	3000.5	3901.8	4278.3	4221.7	3773.4	3374.7	1836.6
57.5°	1032.3	996.1	1166.3	1522.7	2256.7	3588.1	4377.0	4395.4	4000.2	3426.9	1887.3
60°	474.9	482.1	552.3	785.3	1375.6	2806.9	4122.7	4238.9	4125.6	3425.1	1900.1
62.5°	327.3	320.8	303.0	344.8	627.3	1775.2	3482.3	3679.2	3874.2	3318.6	1849.4
65°	292.6	286.1	251.7	240.1	288.2	773.8	2531.5	2780.0	3262.0	3050.1	1723.1
67.5°	273.3	264.4	228.9	206.3	205.7	308.0	1492.7	1791.8	2419.5	2578.7	1493.0
70°	253.2	246.1	210.8	185.9	175.2	193.6	656.1	858.9	1571.0	1858.3	1163.0
72.5°	233.0	224.7	193.0	166.3	152.4	145.0	251.4	327.0	887.6	1114.1	713.0
75°	203.7	199.5	172.5	150.6	135.5	117.1	159.5	182.0	424.5	511.7	357.8
77.5°	178.2	173.7	153.3	131.6	120.7	95.2	113.3	123.6	179.1	207.5	161.6
80°	130.4	134.9	129.3	116.2	107.6	74.7	76.2	84.8	106.4	117.7	98.7
82.5°	82.7	91.0	99.6	89.5	81.5	59.0	52.8	56.0	72.6	77.1	43.9
85°	34.7	35.3	57.8	54.5	46.5	35.0	31.7	33.5	38.8	40.6	20.5
87.5°	13.3	13.0	20.5	19.0	14.5	10.1	10.1	11.3	15.4	14.2	6.5
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°	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8
2.5°	1141.7	1120.6	1078.8	1027.0	989.0	946.3	908.7	881.7	871.6	866.9	858.0
5°	1140.8	1099.3	1012.7	922.0	849.1	774.4	711.2	670.3	666.8	639.5	636.8
7.5°	1141.1	1077.7	939.8	806.4	695.2	618.7	566.5	552.9	536.6	532.5	534.5
10°	1142.0	1050.1	861.5	692.0	584.3	534.2	514.7	509.3	509.9	511.7	512.0
12.5°	1143.2	1023.4	780.3	605.1	522.1	501.3	499.3	504.0	509.0	512.9	513.8
15°	1144.7	992.9	701.1	535.1	490.9	489.2	496.0	504.0	511.1	516.7	517.6
17.5°	1142.9	957.3	634.7	492.1	473.8	482.4	493.6	503.7	510.2	515.6	516.1
20°	1138.7	917.6	570.7	461.9	463.1	477.0	489.2	498.7	505.8	508.4	510.5
22.5°	1122.7	870.1	515.0	438.5	450.3	469.6	484.1	489.8	481.8	476.1	477.6
25°	1095.4	808.5	463.1	419.5	438.8	459.2	474.1	460.4	453.9	451.5	452.7
27.5°	1061.4	740.9	423.9	399.6	423.9	447.7	443.5	441.1	438.2	434.3	435.2
30°	1024.6	674.8	390.7	384.2	407.9	421.6	423.4	427.2	423.9	418.0	420.4
32.5°	990.5	612.5	365.5	371.2	396.7	394.6	407.9	412.4	397.3	377.4	378.3
35°	961.4	554.7	346.6	358.4	377.4	378.3	391.6	376.2	359.9	350.4	351.0
37.5°	939.5	509.6	334.1	347.5	352.8	364.1	356.9	348.9	346.9	340.3	340.6
40°	926.5	470.2	326.1	338.9	338.0	345.7	322.9	330.9	333.8	331.7	332.0
42.5°	913.4	442.3	317.8	327.0	326.7	311.6	306.5	313.4	321.1	322.0	321.4
45°	903.0	420.7	309.2	308.9	314.8	291.1	289.6	293.8	304.8	310.1	309.8
47.5°	891.5	402.6	296.2	287.9	289.6	278.4	276.0	277.8	291.1	299.7	302.1
50°	876.9	384.5	279.9	268.6	261.2	266.5	267.1	267.4	280.8	290.5	292.6
52.5°	865.4	370.9	261.2	252.9	244.0	255.9	260.3	260.9	268.9	276.9	278.4
55°	872.2	363.2	242.8	236.9	228.9	244.9	253.5	254.7	256.4	262.4	263.3
57.5°	892.7	365.0	228.0	220.3	214.3	231.8	246.4	247.3	246.1	253.2	254.4
60°	898.9	364.1	217.0	201.9	198.3	217.9	236.0	237.8	237.5	247.8	249.9
62.5°	872.8	352.8	206.0	186.5	184.1	203.7	221.5	228.6	230.1	244.9	247.5
65°	811.4	329.7	191.5	170.2	170.2	188.6	207.5	217.3	221.5	241.3	244.3
67.5°	730.5	302.4	176.7	156.2	155.6	174.0	192.7	202.8	209.3	236.3	238.1
70°	606.3	265.6	158.3	141.1	141.1	157.7	174.6	186.8	196.3	226.8	226.8
72.5°	415.3	220.9	136.1	123.9	124.2	139.6	156.8	170.5	181.7	207.8	208.4
75°	262.7	172.5	111.8	105.5	106.7	121.3	139.0	153.3	175.8	205.5	206.3
77.5°	139.6	121.3	88.9	87.5	88.9	102.3	122.1	141.7	176.4	178.2	175.2
80°	90.4	86.0	70.3	67.3	67.9	82.4	108.8	134.6	141.7	143.5	137.0
82.5°	49.2	54.5	49.8	46.8	46.8	64.3	92.8	107.0	101.7	84.5	80.6
85°	21.0	25.5	25.8	22.5	21.6	39.7	62.3	58.4	54.3	51.9	51.3
87.5°	5.9	8.3	8.3	6.2	4.7	11.0	12.5	3.6	0.0	0.3	0.6
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)