

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: P522615

Luminaire Tested: **GALN-SA1A-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522615
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-SA1A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4217 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

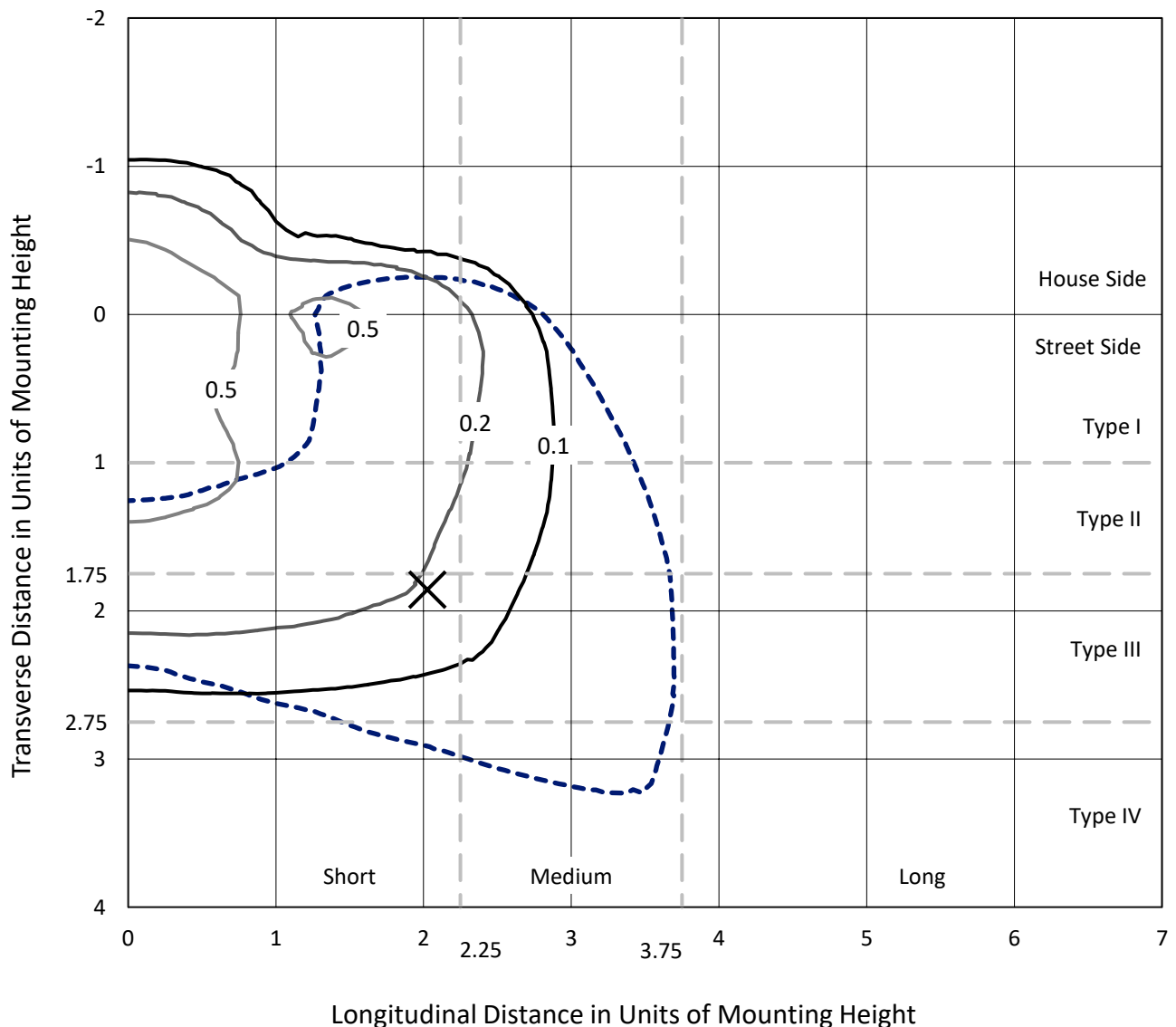
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

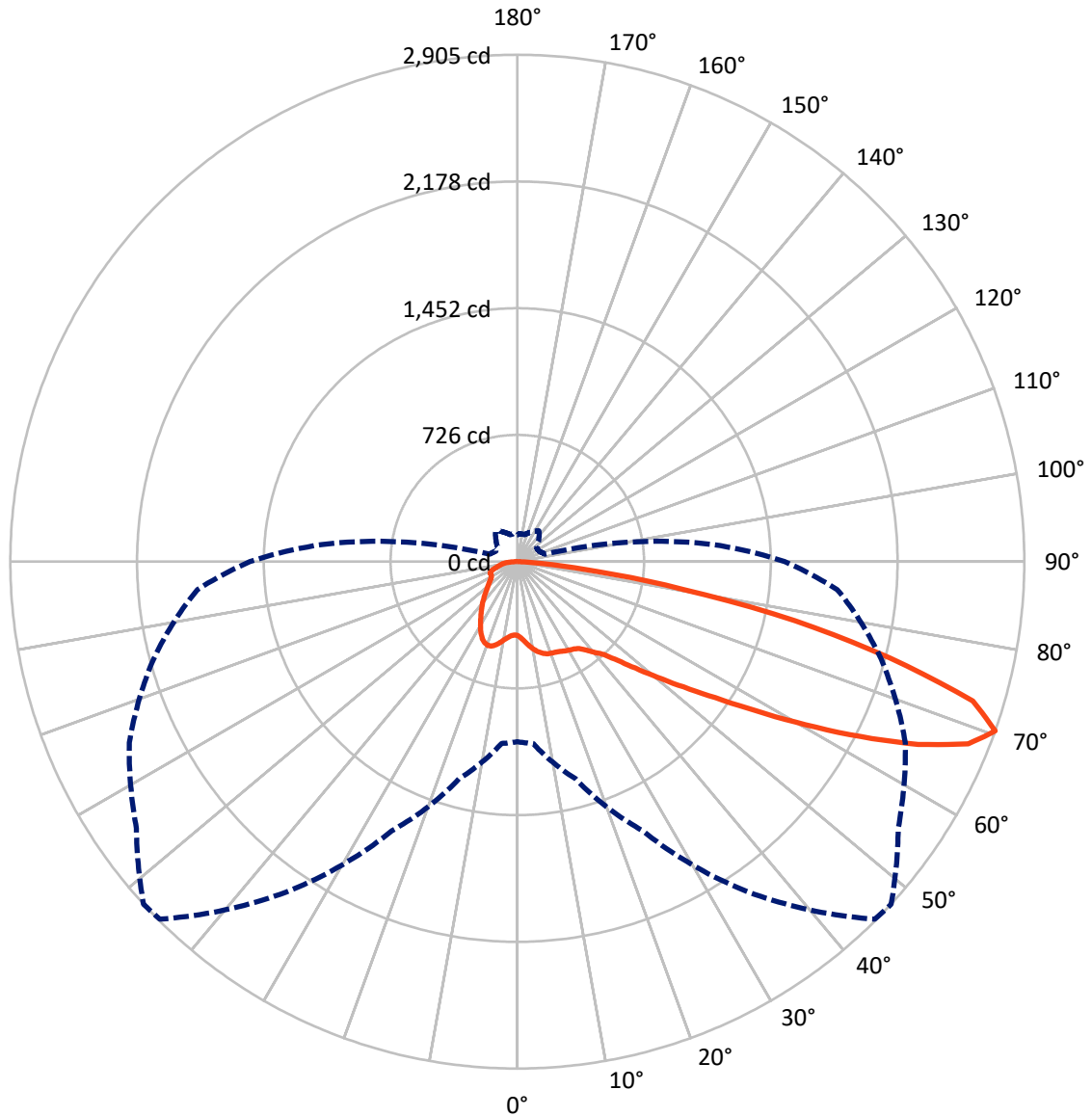
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	954.8	0.0	954.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3262.2	0.0	3262.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	4217.0	0.0	4217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.0
10°-20°	145.9	3.5
20°-30°	242.6	5.8
30°-40°	343.8	8.2
40°-50°	507.6	12.0
50°-60°	879.2	20.8
60°-70°	1241.9	29.4
70°-80°	713.9	16.9
80°-90°	98.5	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°	4217.0	100.0
0°-180°	4217.0	100.0

Coefficient of Utilization



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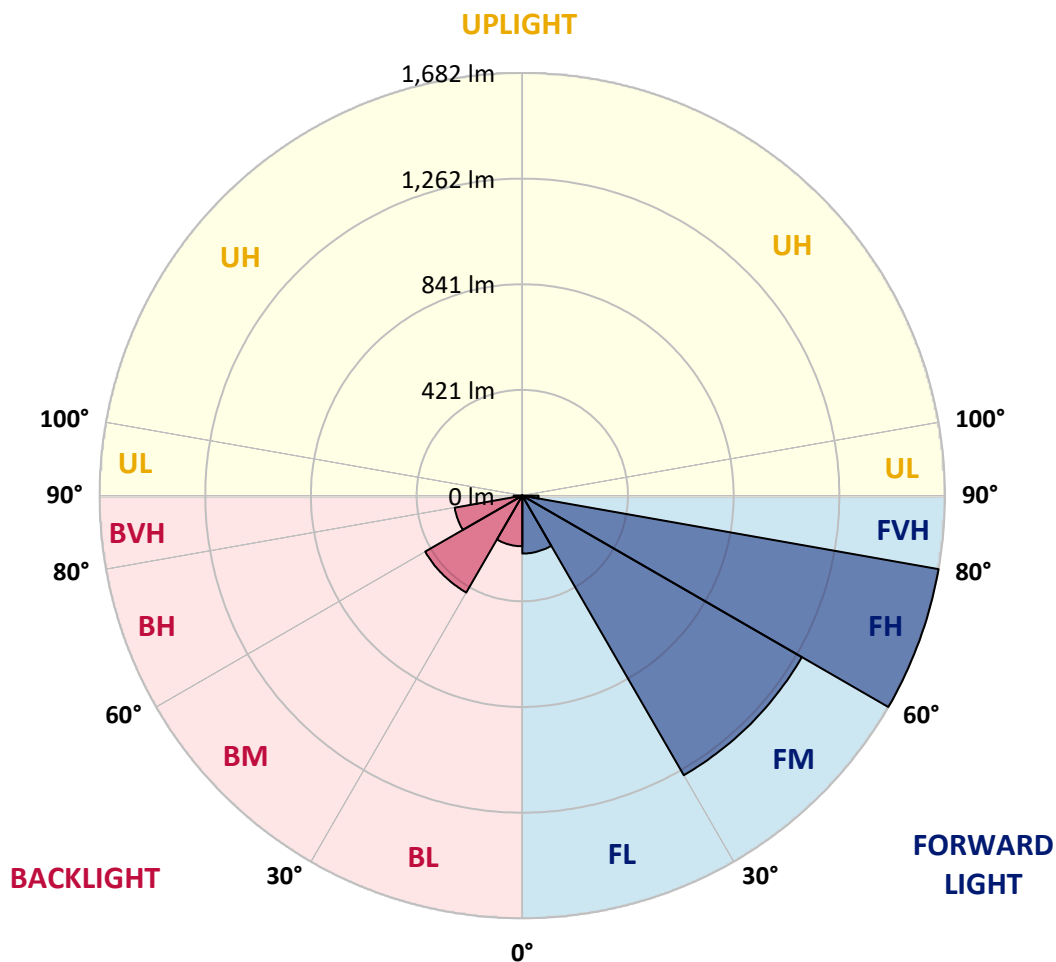
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.6	5.5			
FM	(30°-60°)	1284.8	30.5			
FH	(60°-80°)	1682.4	39.9			G1/1800
FVH	(80°-90°)	64.3	1.5			G1/100
BL	(0°-30°)	201.5	4.8	B1/500		
BM	(30°-60°)	445.8	10.6	B1/1000		
BH	(60°-80°)	273.3	6.5	B1/500		G1/500
BVH	(80°-90°)	34.2	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3
2.5°	450.6	449.1	448.8	445.5	443.6	440.3	438.9	435.7	431.9	428.1	424.5
5°	486.1	486.1	484.5	479.8	472.3	464.6	461.2	455.2	444.3	435.5	428.1
7.5°	522.4	522.9	519.7	512.7	502.1	489.7	486.5	477.5	462.1	449.3	438.2
10°	553.8	553.8	549.5	540.0	526.7	513.1	510.0	499.8	482.7	466.7	452.2
12.5°	577.7	577.7	572.0	559.6	545.2	533.0	529.4	519.7	503.7	485.8	467.6
15°	593.3	592.1	585.8	571.8	557.8	547.2	544.7	536.6	521.9	503.9	483.4
17.5°	593.9	593.5	587.4	575.7	563.5	556.2	554.7	549.3	537.7	520.6	498.9
20°	580.8	581.7	577.7	569.3	563.5	560.3	559.6	557.8	549.7	533.7	512.0
22.5°	566.9	568.4	564.6	560.1	559.6	562.8	563.2	563.7	558.5	542.9	523.1
25°	563.5	564.6	560.8	556.7	559.2	567.5	569.3	571.1	567.1	554.0	536.2
27.5°	580.6	579.7	572.3	563.5	565.0	576.3	578.8	580.8	578.8	567.5	552.4
30°	629.1	626.2	611.3	585.6	577.5	585.4	587.8	593.5	593.5	585.1	570.0
32.5°	710.4	704.7	677.4	626.9	598.7	593.9	596.4	605.7	610.4	603.9	587.4
35°	809.0	803.1	764.1	696.2	637.5	611.1	610.4	620.8	633.4	618.8	597.3
37.5°	908.1	902.0	855.0	778.7	694.1	647.2	643.1	646.7	652.2	625.3	611.1
40°	1007.1	999.9	958.8	871.0	763.4	695.0	684.4	668.2	665.9	646.7	637.7
42.5°	1105.3	1098.7	1078.0	974.6	846.4	741.7	725.5	697.5	706.1	694.6	686.7
45°	1204.3	1204.8	1182.7	1090.8	946.6	827.9	806.1	762.3	782.6	778.3	782.8
47.5°	1292.1	1291.0	1283.1	1203.7	1071.0	939.0	910.8	860.0	894.7	910.5	945.1
50°	1377.2	1376.5	1377.0	1331.6	1215.4	1071.0	1039.8	986.6	1064.9	1119.7	1181.5
52.5°	1499.1	1502.9	1475.6	1463.6	1391.0	1226.9	1192.6	1137.5	1265.9	1352.4	1473.1
55°	1621.4	1618.2	1596.8	1609.2	1574.6	1411.5	1375.6	1331.8	1489.8	1584.4	1765.8
57.5°	1693.3	1694.5	1716.4	1777.1	1801.4	1641.7	1609.2	1575.3	1741.4	1808.4	2026.2
60°	1758.1	1763.3	1826.3	1940.9	2007.0	1924.4	1895.5	1862.6	1972.3	1998.9	2252.3
62.5°	1778.4	1794.4	1904.3	2075.8	2207.4	2243.5	2207.6	2135.0	2192.1	2181.7	2405.5
65°	1677.1	1699.0	1896.0	2126.4	2386.3	2546.3	2523.5	2388.6	2379.3	2316.8	2430.6
67.5°	1410.4	1432.3	1685.2	2020.3	2460.4	2808.6	2785.8	2573.6	2493.1	2329.5	2241.0
70°	1031.9	1045.7	1287.6	1701.0	2311.6	2896.6	2904.5	2663.9	2452.5	2157.8	1840.0
72.5°	594.6	625.1	794.5	1196.7	1888.5	2674.1	2728.9	2476.2	2195.7	1800.1	1286.5
75°	255.7	256.3	367.4	660.1	1279.0	2149.4	2202.4	2052.6	1724.3	1244.7	686.9
77.5°	121.6	123.9	161.6	294.7	704.1	1485.1	1628.1	1450.1	1102.8	598.0	259.5
80°	79.0	80.6	98.8	146.2	345.3	861.1	960.9	836.5	486.5	213.7	111.9
82.5°	47.8	48.3	66.1	89.4	190.0	389.9	459.7	363.1	207.6	127.9	65.9
85°	29.1	29.3	40.2	55.3	115.3	134.7	138.3	137.2	121.9	83.7	35.2
87.5°	14.0	14.4	20.8	26.2	45.4	41.7	39.5	45.8	57.5	45.1	15.1
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°	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3
2.5°	422.9	422.2	420.6	420.0	419.5	419.7	419.5	419.5	419.7	419.7	419.7
5°	424.9	423.8	421.3	421.3	422.7	425.8	428.8	431.0	433.5	433.3	433.3
7.5°	433.7	431.7	428.8	429.7	433.0	438.0	443.2	448.2	453.1	453.6	453.3
10°	446.6	444.5	441.4	442.5	447.9	455.4	461.9	469.1	474.6	476.1	475.7
12.5°	461.2	457.2	454.5	457.6	466.2	476.1	482.5	487.9	491.7	494.0	493.1
15°	476.1	472.3	469.1	475.7	486.1	495.3	498.5	499.4	500.1	502.3	501.9
17.5°	490.6	485.4	484.3	492.8	502.8	506.8	505.0	501.2	498.3	500.1	499.8
20°	503.4	499.4	498.9	507.5	511.3	507.5	499.8	493.1	487.9	488.3	488.1
22.5°	515.6	512.5	512.9	516.5	510.4	497.4	484.7	475.5	469.8	471.0	471.6
25°	529.2	526.0	527.1	521.3	501.2	478.4	460.1	452.2	450.0	452.2	453.8
27.5°	546.8	544.7	544.1	521.5	484.7	450.4	429.7	426.7	428.8	433.7	436.2
30°	565.7	565.7	562.1	517.7	462.1	416.8	398.7	399.2	406.2	413.2	415.7
32.5°	584.0	587.8	576.6	507.3	433.0	384.1	370.3	370.8	376.9	385.4	387.7
35°	599.1	610.2	589.0	488.3	398.7	356.5	346.2	340.1	340.3	346.8	348.6
37.5°	619.9	640.4	596.2	460.1	362.2	333.1	321.3	310.7	303.7	301.0	301.0
40°	656.0	686.2	598.0	418.4	327.7	310.7	294.0	281.4	267.9	255.7	253.4
42.5°	717.1	755.3	594.4	370.3	296.5	286.1	269.9	254.3	235.6	218.4	217.1
45°	825.5	845.1	584.7	320.4	268.8	262.4	246.6	229.7	209.9	194.5	193.4
47.5°	999.0	971.2	571.8	276.2	243.5	241.7	229.5	209.9	190.0	179.4	178.3
50°	1252.4	1169.8	570.0	244.2	223.2	224.1	214.2	196.1	178.7	169.9	168.6
52.5°	1557.5	1409.7	582.0	221.6	205.3	208.7	203.8	187.1	171.7	164.3	162.9
55°	1853.6	1625.4	589.2	204.0	188.7	195.0	195.6	181.7	167.7	160.2	159.3
57.5°	2093.9	1787.9	557.2	188.0	174.2	183.9	188.9	178.5	165.6	160.0	159.1
60°	2261.1	1864.6	466.0	173.8	163.6	175.1	186.4	178.7	170.6	171.3	171.7
62.5°	2314.4	1830.5	349.5	163.2	156.4	172.2	190.5	188.0	179.6	184.8	185.7
65°	2226.1	1689.7	253.4	154.8	150.1	174.2	202.6	194.7	176.5	180.3	180.3
67.5°	1930.7	1455.7	197.2	147.1	142.8	178.0	214.8	194.1	169.0	173.5	169.5
70°	1531.5	1126.0	164.3	138.6	135.2	172.4	216.0	187.1	160.2	161.1	153.4
72.5°	1016.4	740.4	141.3	130.4	123.4	155.0	206.7	178.0	151.6	146.5	138.8
75°	498.0	369.2	123.2	120.3	108.1	134.9	194.1	169.5	142.4	134.3	130.0
77.5°	192.9	157.1	105.2	107.4	94.1	118.9	177.4	157.3	130.2	119.1	115.8
80°	93.6	89.1	86.2	89.6	77.4	101.3	162.0	146.7	118.9	106.7	101.8
82.5°	58.2	55.1	66.1	69.7	59.6	92.5	153.7	137.7	104.7	88.5	84.4
85°	29.6	31.6	44.2	47.6	42.6	73.6	126.6	103.4	75.6	62.7	63.2
87.5°	11.3	15.1	23.2	25.0	22.8	38.8	69.7	60.3	48.5	32.9	30.5
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)