

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: P522618

Luminaire Tested: **GALN-SA1A-750-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522618
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-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4631 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

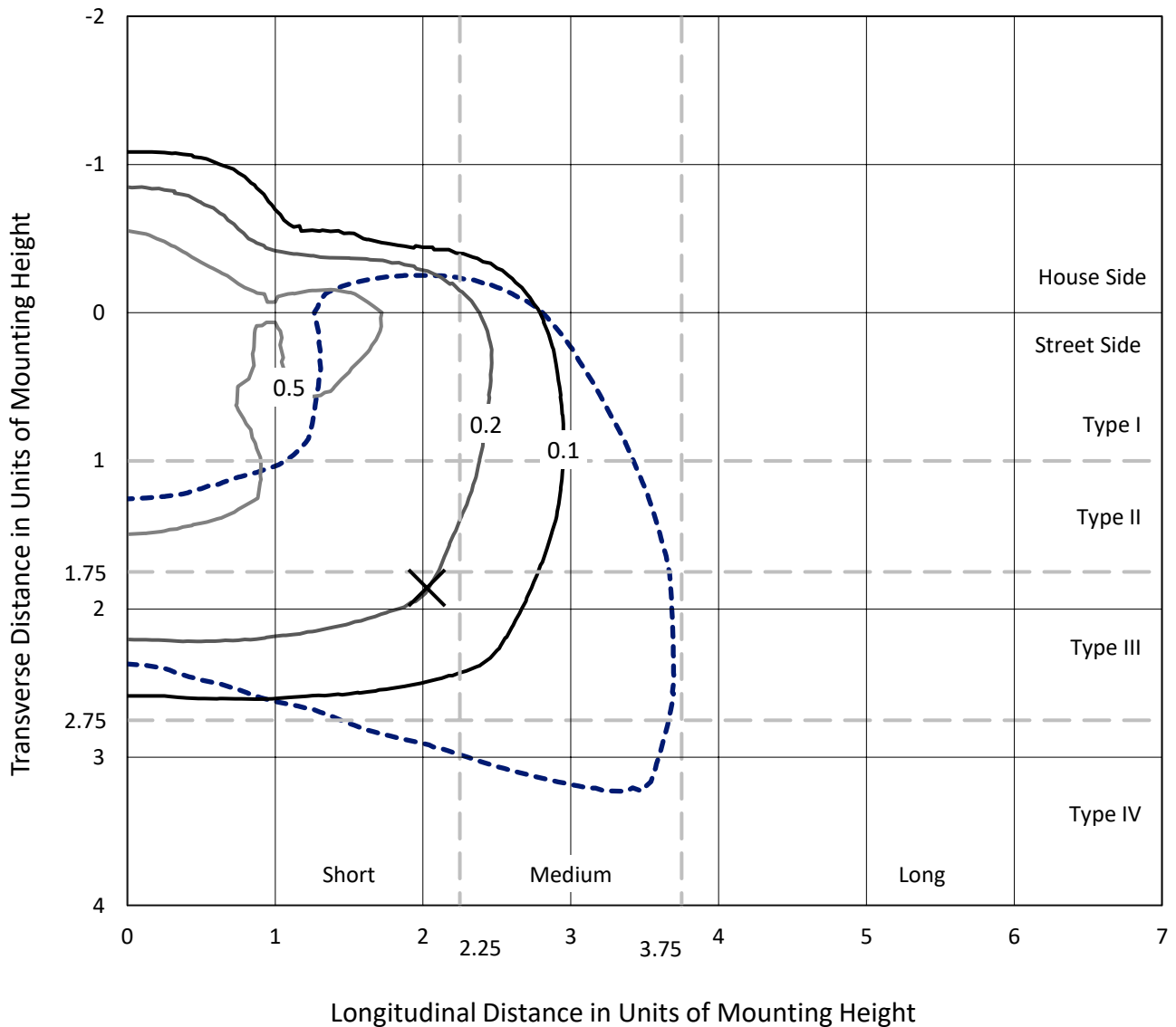
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

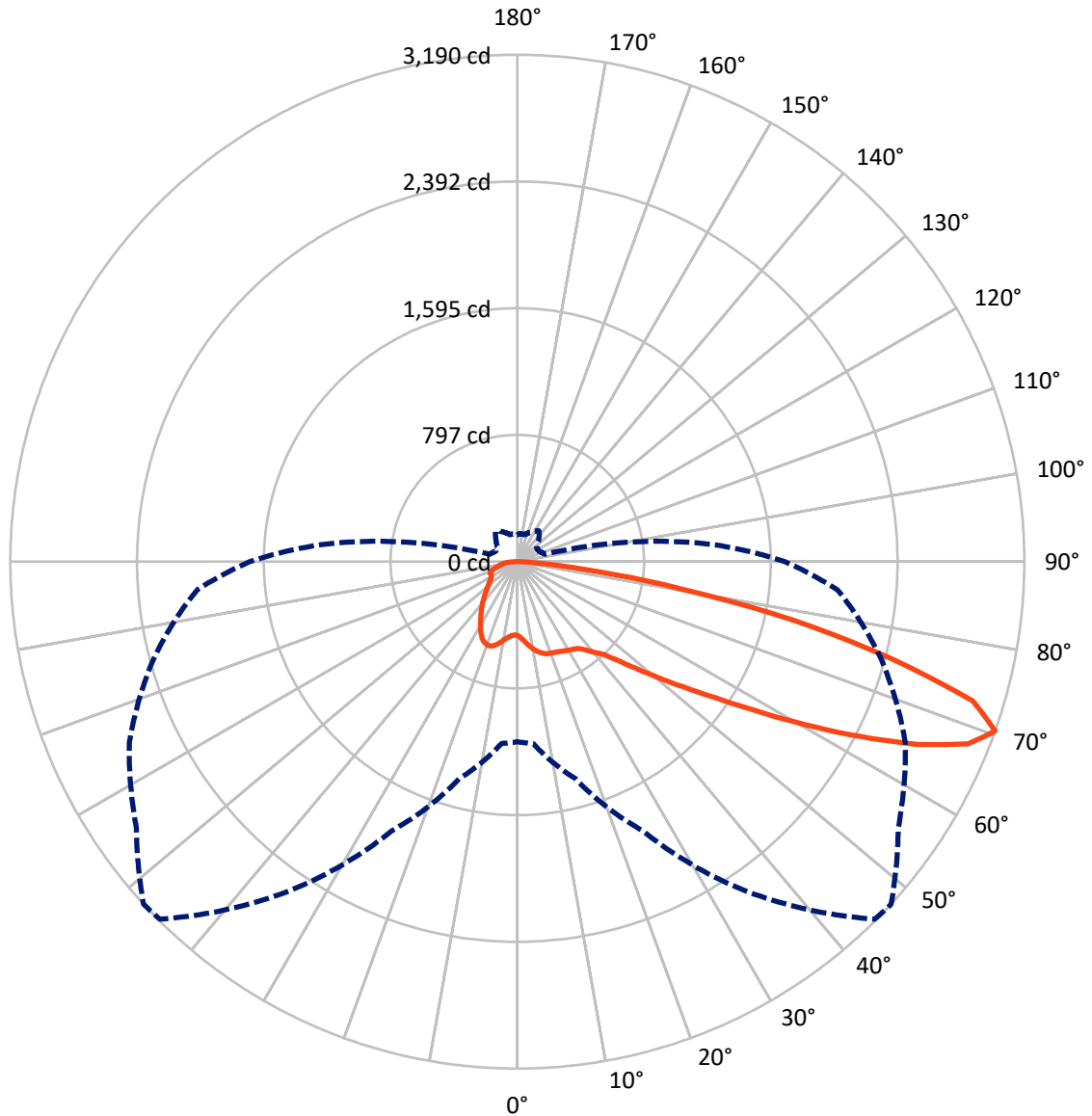
× Max cd
 - - - 1/2 Max cd



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	1048.6	0.0	1048.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3582.4	0.0	3582.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	4631.0	0.0	4631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.0
10°-20°	160.2	3.5
20°-30°	266.4	5.8
30°-40°	377.6	8.2
40°-50°	557.4	12.0
50°-60°	965.5	20.8
60°-70°	1363.8	29.4
70°-80°	784.0	16.9
80°-90°	108.2	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°	4631.0	100.0
0°-180°	4631.0	100.0

Coefficient of Utilization



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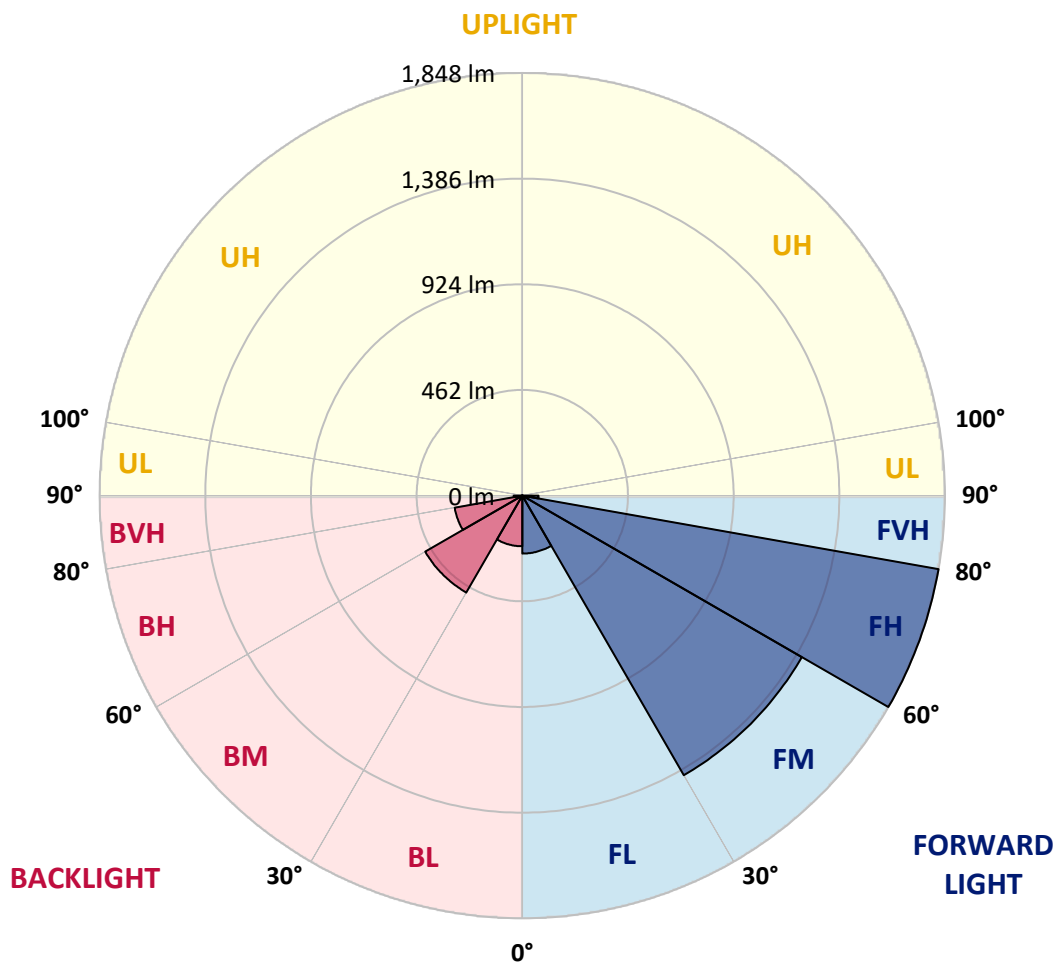
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.2	5.5			
FM	(30°-60°)	1411.0	30.5			
FH	(60°-80°)	1847.6	39.9			G2/5000
FVH	(80°-90°)	70.7	1.5			G1/100
BL	(0°-30°)	221.3	4.8	B1/500		
BM	(30°-60°)	489.6	10.6	B1/1000		
BH	(60°-80°)	300.2	6.5	B1/500		G1/500
BVH	(80°-90°)	37.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	494.9	493.1	492.9	489.2	487.2	483.5	482.0	478.5	474.3	470.1	466.1
5°	533.8	533.8	532.1	526.8	518.7	510.2	506.5	499.8	487.9	478.3	470.1
7.5°	573.7	574.2	570.7	563.0	551.4	537.8	534.3	524.4	507.5	493.4	481.3
10°	608.1	608.1	603.4	593.0	578.4	563.5	560.1	548.9	530.1	512.5	496.6
12.5°	634.4	634.4	628.2	614.6	598.7	585.3	581.4	570.7	553.1	533.5	513.5
15°	651.5	650.3	643.3	628.0	612.6	600.9	598.2	589.3	573.2	553.4	530.8
17.5°	652.2	651.7	645.1	632.2	618.8	610.9	609.1	603.2	590.5	571.7	547.9
20°	637.9	638.9	634.4	625.2	618.8	615.3	614.6	612.6	603.7	586.1	562.3
22.5°	622.5	624.2	620.0	615.1	614.6	618.0	618.5	619.0	613.3	596.2	574.4
25°	618.8	620.0	615.8	611.4	614.1	623.2	625.2	627.2	622.8	608.4	588.8
27.5°	637.6	636.6	628.5	618.8	620.5	632.9	635.6	637.9	635.6	623.2	606.6
30°	690.9	687.7	671.3	643.1	634.2	642.8	645.6	651.7	651.7	642.6	626.0
32.5°	780.1	773.9	743.9	688.4	657.4	652.2	655.0	665.1	670.3	663.1	645.1
35°	888.4	882.0	839.1	764.5	700.1	671.1	670.3	681.7	695.6	679.5	656.0
37.5°	997.2	990.5	939.0	855.2	762.3	710.7	706.3	710.2	716.2	686.7	671.1
40°	1106.0	1098.1	1053.0	956.6	838.4	763.3	751.6	733.8	731.3	710.2	700.3
42.5°	1213.8	1206.6	1183.8	1070.3	929.5	814.6	796.7	766.0	775.4	762.8	754.1
45°	1322.6	1323.1	1298.8	1197.9	1039.6	909.2	885.2	837.1	859.4	854.7	859.7
47.5°	1419.0	1417.7	1409.1	1321.8	1176.1	1031.1	1000.2	944.4	982.6	999.9	1037.8
50°	1512.4	1511.7	1512.2	1462.3	1334.7	1176.1	1141.9	1083.4	1169.4	1229.6	1297.5
52.5°	1646.2	1650.4	1620.4	1607.3	1527.5	1347.4	1309.7	1249.2	1390.2	1485.1	1617.7
55°	1780.5	1777.1	1753.5	1767.2	1729.2	1550.1	1510.7	1462.6	1636.1	1739.9	1939.1
57.5°	1859.6	1860.8	1884.9	1951.5	1978.3	1802.8	1767.2	1730.0	1912.4	1986.0	2225.1
60°	1930.7	1936.4	2005.5	2131.4	2204.0	2113.3	2081.6	2045.4	2165.9	2195.1	2473.4
62.5°	1953.0	1970.6	2091.3	2279.6	2424.1	2463.8	2424.4	2344.6	2407.3	2395.9	2641.7
65°	1841.7	1865.8	2082.1	2335.1	2620.6	2796.3	2771.3	2623.1	2612.9	2544.3	2669.2
67.5°	1548.8	1572.9	1850.7	2218.7	2701.9	3084.3	3059.2	2826.3	2737.8	2558.2	2461.0
70°	1133.2	1148.4	1414.0	1868.0	2538.6	3180.9	3189.6	2925.4	2693.2	2369.6	2020.7
72.5°	653.0	686.4	872.5	1314.2	2073.9	2936.6	2996.8	2719.2	2411.2	1976.8	1412.8
75°	280.8	281.5	403.4	724.9	1404.6	2360.4	2418.7	2254.1	1893.5	1366.9	754.3
77.5°	133.6	136.0	177.4	323.6	773.2	1630.9	1788.0	1592.4	1211.1	656.7	285.0
80°	86.7	88.5	108.5	160.6	379.2	945.7	1055.2	918.6	534.3	234.7	122.9
82.5°	52.5	53.0	72.6	98.1	208.7	428.2	504.8	398.7	228.0	140.5	72.4
85°	32.0	32.2	44.1	60.7	126.6	147.9	151.9	150.7	133.8	91.9	38.7
87.5°	15.4	15.9	22.8	28.7	49.8	45.8	43.4	50.3	63.2	49.6	16.6
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°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	464.4	463.7	461.9	461.2	460.7	460.9	460.7	460.7	460.9	460.9	460.9
5°	466.6	465.4	462.7	462.7	464.2	467.6	470.8	473.3	476.0	475.8	475.8
7.5°	476.3	474.1	470.8	471.8	475.6	481.0	486.7	492.2	497.6	498.1	497.9
10°	490.4	488.2	484.7	486.0	491.9	500.1	507.3	515.2	521.2	522.9	522.4
12.5°	506.5	502.1	499.1	502.6	512.0	522.9	529.8	535.8	540.0	542.5	541.5
15°	522.9	518.7	515.2	522.4	533.8	543.9	547.4	548.4	549.2	551.6	551.1
17.5°	538.7	533.0	531.8	541.2	552.1	556.6	554.6	550.4	547.2	549.2	548.9
20°	552.9	548.4	547.9	557.3	561.5	557.3	548.9	541.5	535.8	536.3	536.0
22.5°	566.3	562.8	563.3	567.2	560.6	546.2	532.3	522.1	515.9	517.2	517.9
25°	581.1	577.7	578.9	572.4	550.4	525.4	505.3	496.6	494.1	496.6	498.4
27.5°	600.5	598.2	597.5	572.7	532.3	494.6	471.8	468.6	470.8	476.3	479.0
30°	621.3	621.3	617.3	568.5	507.5	457.7	437.9	438.4	446.1	453.7	456.5
32.5°	641.3	645.6	633.2	557.1	475.6	421.8	406.7	407.2	413.8	423.3	425.7
35°	657.9	670.1	646.8	536.3	437.9	391.5	380.1	373.5	373.7	380.9	382.9
37.5°	680.7	703.3	654.7	505.3	397.7	365.8	352.9	341.2	333.6	330.6	330.6
40°	720.4	753.6	656.7	459.4	359.8	341.2	322.9	309.0	294.2	280.8	278.3
42.5°	787.5	829.4	652.7	406.7	325.6	314.2	296.4	279.3	258.7	239.9	238.4
45°	906.5	928.1	642.1	351.9	295.1	288.2	270.9	252.3	230.5	213.6	212.4
47.5°	1097.1	1066.6	628.0	303.3	267.4	265.4	252.0	230.5	208.7	197.0	195.8
50°	1375.4	1284.7	626.0	268.1	245.1	246.1	235.2	215.3	196.3	186.6	185.1
52.5°	1710.4	1548.1	639.1	243.4	225.5	229.2	223.8	205.4	188.6	180.4	178.9
55°	2035.5	1785.0	647.0	224.0	207.2	214.1	214.9	199.5	184.1	175.9	175.0
57.5°	2299.5	1963.4	611.8	206.4	191.3	202.0	207.4	196.0	181.9	175.7	174.7
60°	2483.1	2047.7	511.7	190.8	179.7	192.3	204.7	196.3	187.3	188.1	188.6
62.5°	2541.6	2010.3	383.9	179.2	171.7	189.1	209.2	206.4	197.3	203.0	203.9
65°	2444.7	1855.6	278.3	170.0	164.8	191.3	222.5	213.9	193.8	198.0	198.0
67.5°	2120.3	1598.6	216.6	161.6	156.9	195.5	235.9	213.1	185.6	190.6	186.1
70°	1681.9	1236.6	180.4	152.2	148.4	189.3	237.2	205.4	175.9	176.9	168.5
72.5°	1116.1	813.1	155.1	143.2	135.6	170.2	227.0	195.5	166.5	160.8	152.4
75°	546.9	405.4	135.3	132.1	118.7	148.2	213.1	186.1	156.4	147.4	142.7
77.5°	211.9	172.5	115.5	118.0	103.3	130.6	194.8	172.7	143.0	130.8	127.1
80°	102.8	97.9	94.7	98.4	85.0	111.3	177.9	161.1	130.6	117.2	111.8
82.5°	63.9	60.5	72.6	76.6	65.4	101.6	168.8	151.2	115.0	97.1	92.7
85°	32.5	34.7	48.6	52.3	46.8	80.8	139.0	113.5	83.0	68.9	69.4
87.5°	12.4	16.6	25.5	27.5	25.0	42.6	76.6	66.2	53.3	36.2	33.5
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)