

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: P192230

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8026 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

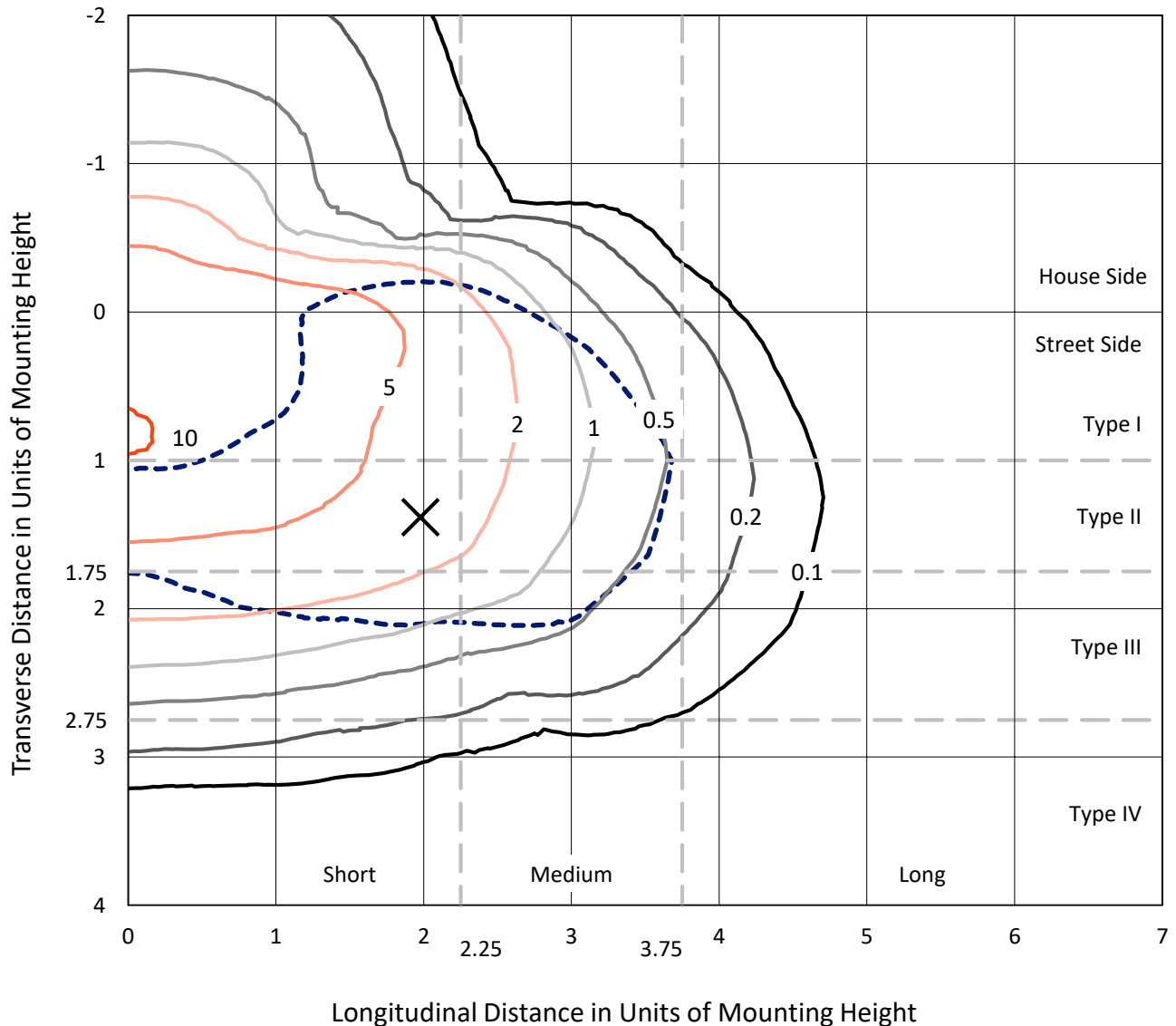
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

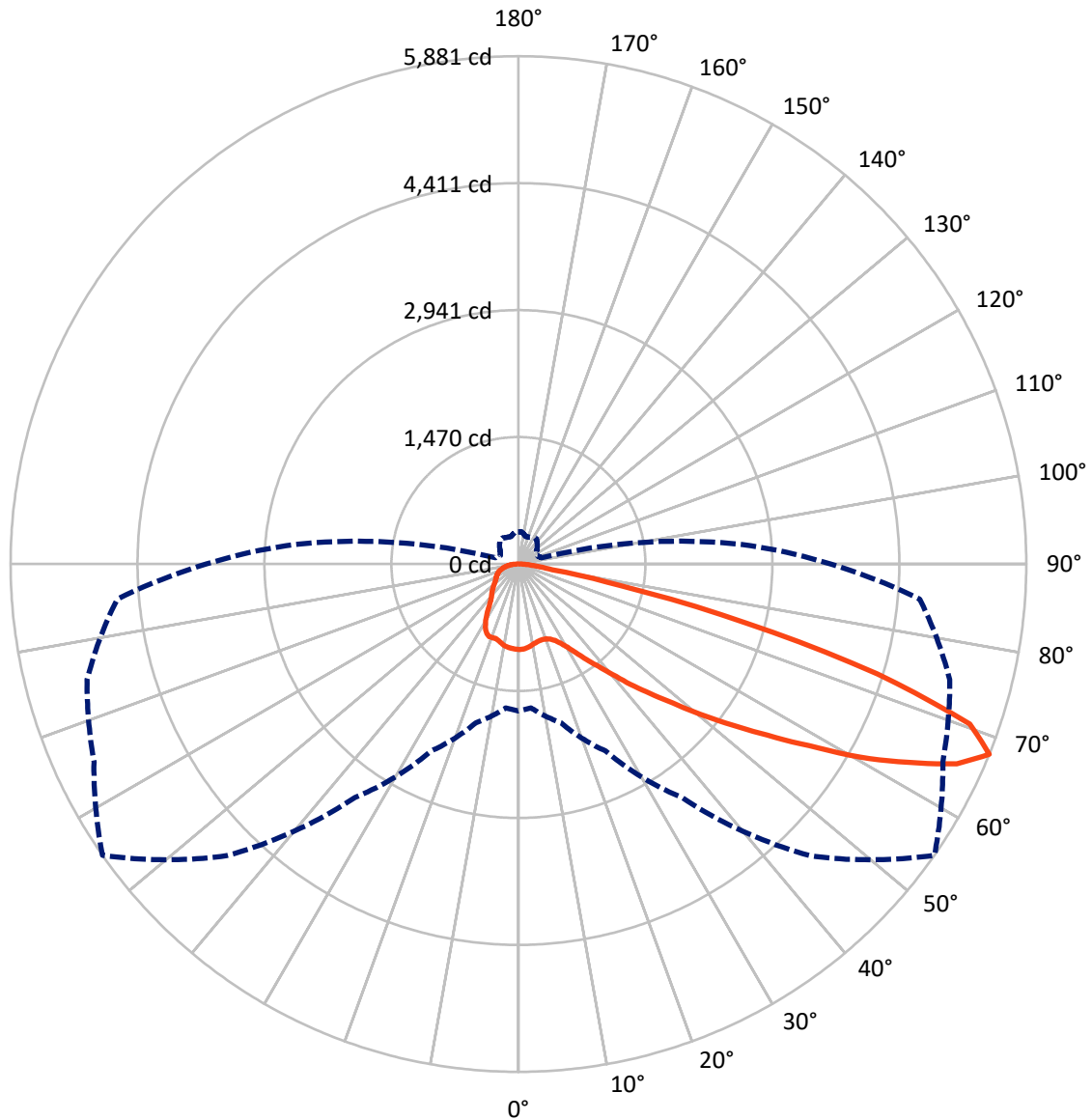
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.8	0.0	1733.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6292.2	0.0	6292.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	8026.0	0.0	8026.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.2
10°-20°	261.6	3.3
20°-30°	438.3	5.5
30°-40°	720.7	9.0
40°-50°	1213.1	15.1
50°-60°	1909.4	23.8
60°-70°	2278.6	28.4
70°-80°	978.5	12.2
80°-90°	133.4	1.7
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°	8026.0	100.0
0°-180°	8026.0	100.0



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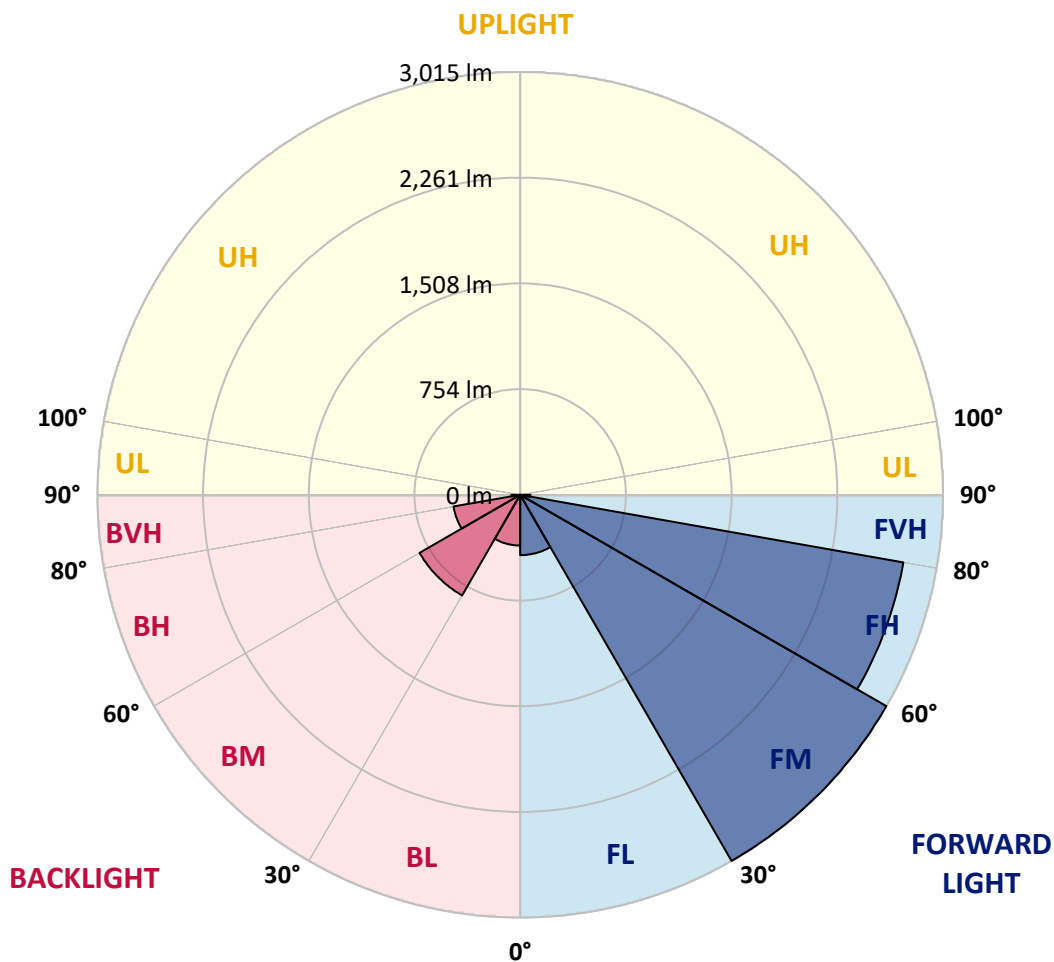
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	430.2	5.4			
FM (30°-60°)	3015.2	37.6			
FH (60°-80°)	2774.6	34.6			G2/5000
FVH (80°-90°)	72.2	0.9			G1/100
BL (0°-30°)	362.0	4.5	B1/500		
BM (30°-60°)	828.0	10.3	B1/1000		
BH (60°-80°)	482.5	6.0	B1/500		G1/500
BVH (80°-90°)	61.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	989.7	989.7	989.7	989.7	989.7	989.7	989.7	989.7	989.7	989.7	989.7
2.5°	981.2	981.6	982.3	985.4	988.1	987.4	987.8	986.2	985.8	983.5	985.8
5°	968.8	969.9	970.3	975.4	978.5	979.2	978.1	976.1	973.8	971.5	972.6
7.5°	940.5	943.6	943.9	950.9	956.0	962.6	962.9	963.3	962.2	960.6	962.9
10°	922.6	923.4	923.0	928.1	931.9	939.3	943.6	950.9	954.0	954.8	956.4
12.5°	921.5	920.7	919.5	919.5	918.4	921.5	929.2	939.7	947.1	949.4	951.3
15°	933.9	933.5	929.6	923.8	916.4	914.1	920.7	932.3	942.0	947.1	949.0
17.5°	961.8	959.5	953.3	940.1	924.2	918.0	918.8	928.4	939.7	946.3	948.2
20°	1013.0	1013.0	999.8	975.0	946.7	931.9	925.0	930.8	941.6	950.5	953.3
22.5°	1101.3	1102.1	1080.0	1039.3	991.6	960.2	942.8	941.6	954.4	964.5	967.6
25°	1226.6	1223.5	1192.4	1134.3	1061.8	1009.9	979.6	972.6	983.5	994.7	998.6
27.5°	1372.3	1361.1	1324.2	1254.1	1160.3	1084.3	1037.8	1026.5	1037.0	1049.8	1053.7
30°	1516.5	1504.9	1461.1	1384.3	1280.1	1183.9	1117.2	1099.0	1113.7	1132.0	1134.3
32.5°	1660.7	1660.7	1611.9	1522.3	1408.8	1302.9	1223.1	1201.4	1225.8	1247.9	1252.9
35°	1833.2	1834.0	1786.7	1679.0	1556.8	1444.8	1356.8	1340.9	1377.7	1393.2	1405.3
37.5°	2045.3	2049.6	1988.7	1858.4	1724.7	1606.8	1502.2	1480.5	1517.3	1559.6	1598.3
40°	2274.4	2279.8	2212.8	2052.3	1918.5	1795.2	1682.1	1642.9	1704.1	1784.8	1834.8
42.5°	2493.0	2520.9	2456.2	2291.1	2147.2	2019.7	1905.0	1848.0	1924.7	2046.5	2089.9
45°	2809.0	2829.1	2716.3	2566.7	2431.4	2288.7	2136.8	2076.7	2184.1	2337.6	2346.5
47.5°	3019.5	3004.4	2947.0	2853.9	2768.3	2634.9	2406.2	2340.3	2483.0	2663.6	2613.6
50°	3131.5	3136.2	3128.4	3133.8	3136.9	3053.2	2736.5	2646.2	2816.3	3034.6	2919.5
52.5°	3236.2	3205.2	3230.8	3357.9	3511.4	3480.4	3095.8	3001.6	3173.8	3446.3	3242.8
55°	3233.9	3186.6	3269.9	3494.4	3827.4	3863.0	3499.4	3390.9	3551.7	3887.8	3585.5
57.5°	3119.5	3121.8	3250.1	3544.0	4047.5	4222.8	3967.7	3804.9	3952.6	4335.2	3898.3
60°	2962.1	2983.4	3168.3	3535.8	4223.9	4517.8	4542.2	4251.1	4345.3	4741.8	4157.3
62.5°	2708.2	2730.7	2985.7	3451.3	4197.2	4801.9	5061.7	4757.4	4755.8	4988.4	4233.2
65°	2307.7	2301.1	2569.0	3135.4	3972.7	5012.0	5577.6	5195.0	5065.2	4992.3	4080.5
67.5°	1701.8	1672.4	1902.2	2388.0	3302.1	4776.7	5881.2	5423.0	5170.6	4663.9	3613.8
70°	883.1	853.6	1039.7	1394.4	2171.7	3728.1	5545.1	5305.1	4937.6	3909.5	2831.1
72.5°	377.6	372.5	448.1	611.7	1050.6	2150.3	4348.0	4591.8	4236.7	2912.9	1946.4
75°	253.9	252.4	280.7	333.4	472.6	872.6	2721.0	3259.4	3099.7	1806.1	1094.7
77.5°	199.3	197.3	214.0	239.6	306.3	344.2	1207.6	1749.9	1619.6	786.2	479.1
80°	155.8	154.3	164.8	178.7	220.2	217.1	397.4	696.2	538.8	301.2	233.0
82.5°	122.9	122.9	131.4	131.8	156.2	148.1	207.4	306.6	269.0	175.6	142.7
85°	112.4	112.4	121.3	98.5	102.0	93.4	128.7	181.8	170.6	72.1	62.0
87.5°	56.6	55.0	102.0	87.2	55.4	49.6	62.8	88.0	94.6	39.9	31.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	989.7	989.7	989.7	989.7	989.7	989.7	989.7	989.7	989.7	989.7
2.5°	985.0	984.7	985.4	985.8	988.9	993.2	995.1	997.8	999.4	998.6
5°	973.4	974.2	977.3	979.6	985.0	992.0	995.9	999.0	1001.7	1000.5
7.5°	963.7	965.7	970.3	972.2	975.4	977.3	976.9	978.1	980.4	977.7
10°	958.3	960.6	964.1	961.4	954.0	943.6	933.9	928.8	930.4	928.4
12.5°	952.9	956.0	953.3	940.5	919.9	906.3	899.0	899.8	903.2	904.0
15°	949.8	950.9	939.3	915.3	894.3	892.4	896.3	895.5	895.9	895.9
17.5°	949.8	946.7	925.0	900.9	892.0	888.5	876.5	861.4	854.8	852.5
20°	954.8	946.7	920.3	904.4	885.0	855.2	823.4	795.5	783.1	779.6
22.5°	969.9	956.0	933.5	906.0	850.9	800.9	750.5	717.2	694.7	690.8
25°	1000.5	985.0	959.5	885.4	796.6	725.3	667.9	630.7	608.2	605.1
27.5°	1054.0	1044.0	973.4	840.1	724.5	648.2	595.1	566.4	549.7	548.5
30°	1134.7	1129.6	966.4	773.0	635.8	573.3	547.8	531.1	518.7	518.3
32.5°	1263.4	1222.7	943.6	691.2	554.7	520.2	509.8	499.7	490.0	490.0
35°	1428.9	1297.9	900.1	603.6	505.5	490.8	477.6	461.7	448.9	448.1
37.5°	1623.5	1344.4	822.2	533.0	482.2	471.0	451.6	428.0	405.5	401.6
40°	1820.1	1358.4	712.5	489.6	467.5	451.2	427.6	399.7	378.0	376.8
42.5°	2000.3	1331.6	596.2	459.8	452.8	431.1	406.3	381.5	364.4	364.0
45°	2151.5	1262.2	498.5	431.5	437.3	412.9	390.8	370.6	357.4	354.7
47.5°	2293.8	1164.1	429.9	401.6	421.8	402.8	384.2	365.2	352.4	350.4
50°	2458.9	1058.3	381.8	372.5	408.2	399.3	389.6	369.8	348.5	346.2
52.5°	2659.0	966.8	344.2	347.0	397.7	403.9	403.6	383.0	345.8	342.7
55°	2882.2	865.3	315.9	326.0	393.5	412.5	407.0	395.4	348.1	343.5
57.5°	3102.0	746.6	296.2	310.1	387.3	411.7	390.4	373.7	353.5	347.0
60°	3266.8	587.3	281.1	296.2	373.7	398.9	372.2	350.1	352.4	347.3
62.5°	3277.7	453.9	262.8	284.2	353.2	386.1	360.1	339.6	357.4	352.8
65°	3085.0	343.1	245.4	269.8	331.1	378.0	348.5	333.8	367.9	362.8
67.5°	2597.3	276.0	230.7	255.1	309.0	360.9	338.0	328.3	377.2	368.3
70°	1875.1	235.3	216.3	237.2	289.2	341.5	328.7	318.7	352.0	338.0
72.5°	1154.4	203.9	200.0	213.6	274.1	321.4	314.8	300.4	317.1	305.9
75°	576.4	176.8	181.8	190.3	252.8	298.5	291.5	277.2	279.5	277.2
77.5°	276.0	151.2	160.5	167.1	225.2	272.5	265.2	250.4	247.7	248.1
80°	174.8	126.4	135.3	139.9	201.2	242.3	234.9	220.2	251.2	233.0
82.5°	109.3	102.7	105.1	113.6	175.2	210.9	201.2	188.0	226.4	179.1
85°	60.5	71.7	74.8	82.2	134.9	176.4	166.7	150.0	134.5	132.2
87.5°	36.1	42.6	43.8	49.2	90.7	127.5	112.8	107.0	88.8	88.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)