

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: P269114

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7012.7 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

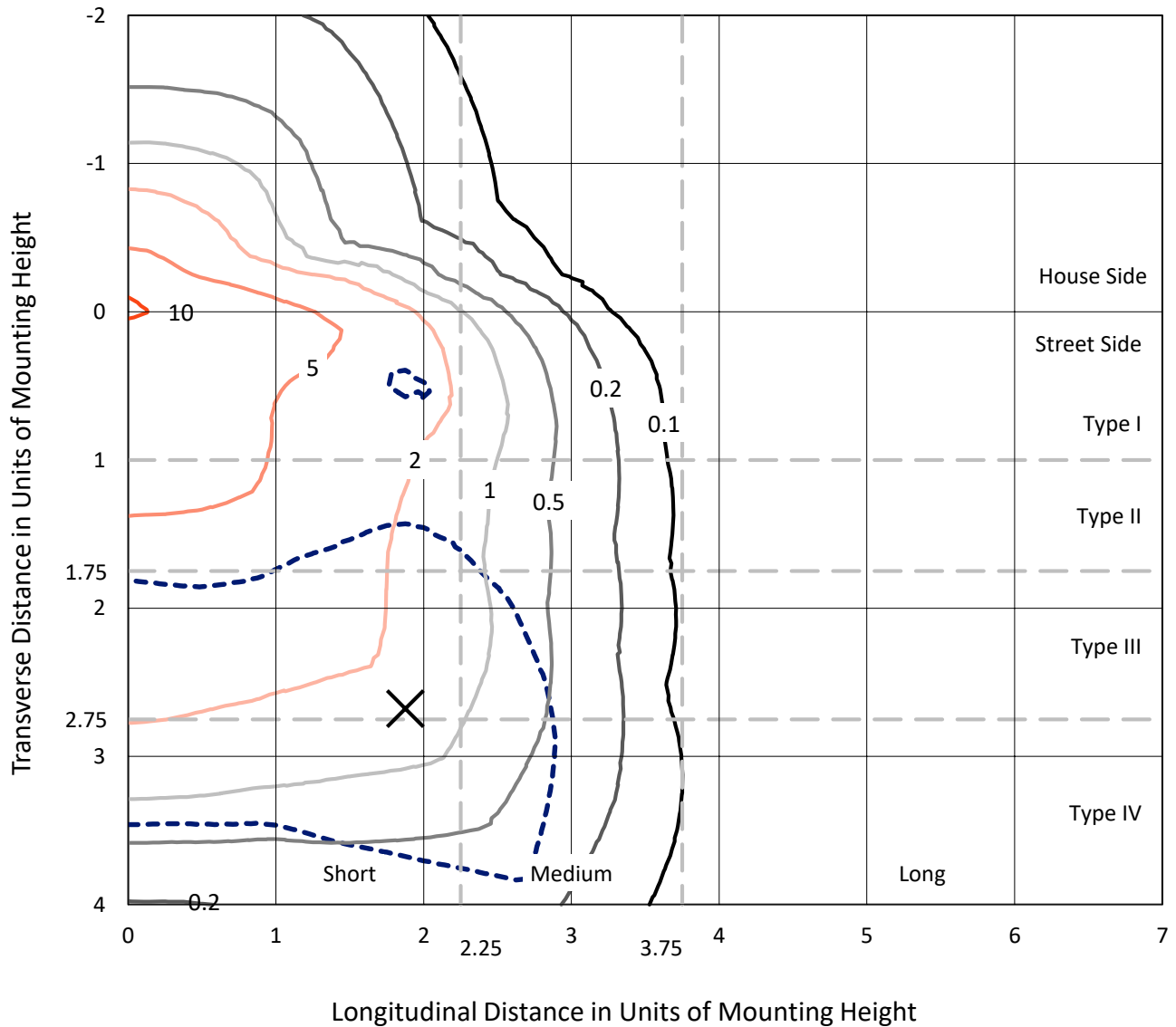


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

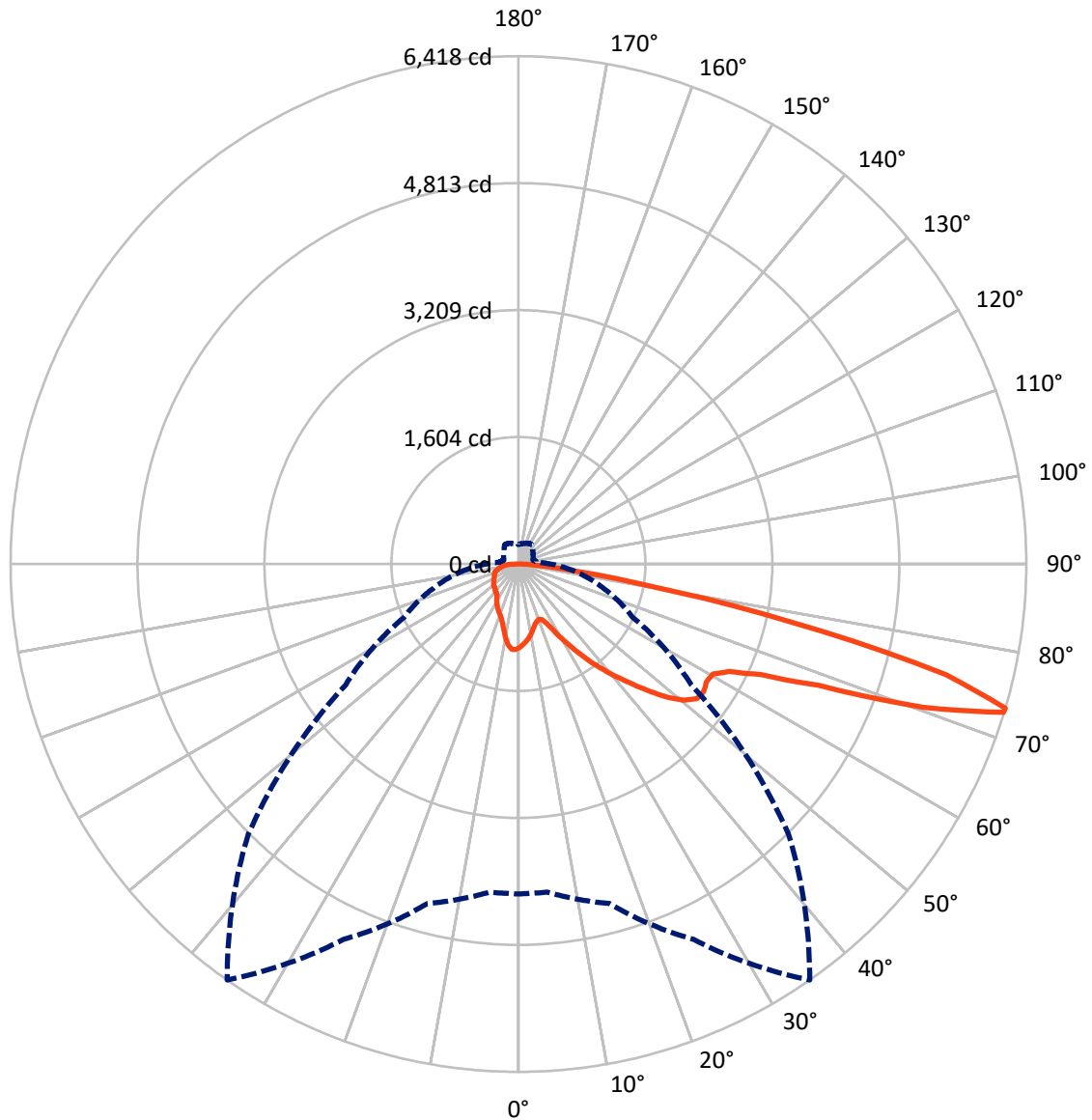


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1337.5	0.0	1337.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	5675.2	0.0	5675.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	7012.7	0.0	7012.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.4
10°-20°	239.1	3.4
20°-30°	386.6	5.5
30°-40°	648.3	9.2
40°-50°	999.3	14.3
50°-60°	1340.7	19.1
60°-70°	1786.1	25.5
70°-80°	1362.2	19.4
80°-90°	154.4	2.2
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°	7012.7	100.0
0°-180°	7012.7	100.0

Coefficient of Utilization



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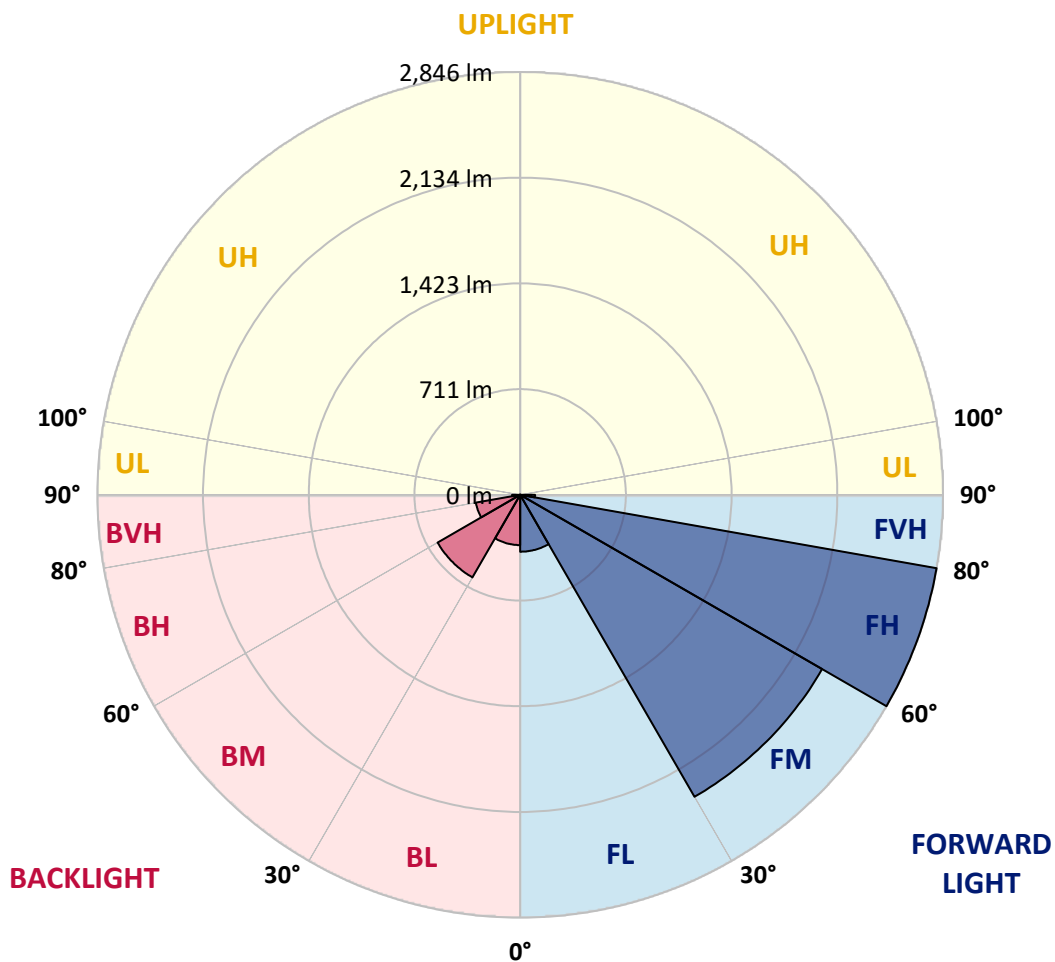
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.1	5.5			
FM	(30°-60°)	2346.5	33.5			
FH	(60°-80°)	2845.7	40.6			G2/5000
FVH	(80°-90°)	99.8	1.4			G1/100
BL	(0°-30°)	338.5	4.8	B1/500		
BM	(30°-60°)	641.9	9.2	B1/1000		
BH	(60°-80°)	302.6	4.3	B1/500		G1/500
BVH	(80°-90°)	54.6	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°	55°	65°	75°	85°	90°
0°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1016.7	1018.7	1016.3	1019.3	1024.3	1029.7	1033.5	1038.9	1045.0	1053.4	1055.4
5°	968.8	971.8	971.8	977.3	987.1	995.9	1003.9	1012.6	1025.4	1039.9	1045.6
7.5°	916.4	918.0	921.0	929.0	943.3	955.7	967.1	981.3	998.8	1018.0	1028.1
10°	853.0	855.4	860.0	871.5	890.7	907.8	924.4	943.8	966.1	990.1	1002.9
12.5°	808.2	807.5	809.6	817.9	834.9	855.6	879.6	904.6	931.8	959.7	975.3
15°	793.1	789.4	781.6	779.5	788.7	809.6	837.2	867.9	900.6	934.1	953.5
17.5°	802.5	796.1	774.9	759.3	758.0	773.9	803.2	837.5	875.2	916.4	940.3
20°	861.7	846.7	794.5	758.3	746.0	753.7	779.3	815.7	860.0	914.7	945.2
22.5°	1003.5	981.3	870.5	803.5	761.5	752.1	771.1	809.9	861.7	935.6	974.7
25°	1209.9	1178.3	1001.3	916.0	829.0	778.9	783.3	823.0	885.6	984.1	1031.2
27.5°	1373.0	1352.4	1171.8	1074.6	952.4	851.7	822.7	856.1	934.4	1063.5	1111.7
30°	1469.9	1457.5	1354.5	1254.5	1109.6	967.6	898.1	918.0	1011.0	1173.5	1213.3
32.5°	1582.5	1575.0	1524.6	1432.5	1279.4	1119.6	1017.7	1010.7	1113.3	1306.0	1324.1
35°	1699.0	1696.5	1667.0	1601.0	1461.5	1320.4	1176.3	1128.5	1224.7	1443.3	1431.9
37.5°	1807.4	1803.3	1786.2	1747.8	1652.2	1535.9	1337.9	1249.4	1345.0	1574.6	1523.9
40°	2007.2	1975.5	1916.5	1887.5	1844.8	1717.5	1466.3	1362.2	1469.5	1700.0	1603.4
42.5°	2250.6	2199.1	2089.3	2049.6	2043.5	1860.6	1553.8	1471.7	1595.2	1824.2	1681.4
45°	2442.2	2393.7	2299.0	2248.8	2271.2	1990.3	1641.7	1588.6	1724.6	1954.5	1761.9
47.5°	2646.5	2570.5	2445.1	2460.4	2508.8	2112.9	1731.3	1714.1	1866.3	2100.3	1861.9
50°	2654.0	2595.7	2540.9	2631.4	2706.9	2225.6	1843.4	1845.7	2039.7	2283.9	1995.0
52.5°	2500.2	2487.6	2574.8	2717.4	2826.1	2314.9	1971.1	1981.8	2261.7	2494.8	2141.1
55°	2446.3	2432.2	2532.7	2687.3	2842.2	2388.7	2109.5	2129.1	2530.0	2717.0	2283.5
57.5°	2577.5	2546.2	2553.0	2673.1	2802.8	2469.4	2260.3	2299.8	2821.7	2911.2	2375.2
60°	2944.6	2877.6	2750.3	2747.2	2824.0	2590.7	2434.8	2482.9	3124.8	3004.2	2339.5
62.5°	3459.6	3392.4	3154.0	2998.8	2987.5	2790.8	2648.9	2661.8	3300.0	2878.3	2121.5
65°	4016.9	3956.9	3690.5	3471.3	3365.6	3122.1	2897.8	2741.5	3242.6	2531.8	1740.3
67.5°	4693.5	4629.1	4400.1	4197.7	4096.0	3656.9	3072.7	2665.1	2879.2	1961.3	1251.1
70°	5166.5	5100.8	5010.7	5174.6	5423.4	4428.4	3095.1	2354.3	2150.5	1303.6	753.0
72.5°	4549.2	4518.7	4683.4	5374.0	6410.6	4896.5	2797.9	1714.1	1249.1	692.1	435.8
73°	4168.0	4161.3	4442.2	5234.2	6417.6	4824.3	2667.4	1593.2	1071.1	612.3	398.4
75°	1882.2	1936.3	2551.9	3997.9	5575.7	3975.4	1877.5	913.9	605.2	422.9	300.8
77.5°	452.2	471.2	798.5	1898.7	3521.1	2369.1	850.7	451.9	386.9	298.6	219.5
80°	192.6	199.1	307.5	701.4	1657.8	954.0	392.0	302.8	267.8	208.4	153.9
82.5°	107.1	113.8	174.5	318.2	669.1	325.2	239.0	210.8	176.1	125.7	100.0
85°	60.6	64.3	102.0	177.9	283.5	130.7	143.1	140.0	99.4	64.7	49.1
87.5°	28.7	31.0	49.1	82.6	111.1	51.3	72.8	80.2	62.3	39.3	25.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1057.8	1063.9	1070.9	1074.6	1078.0	1082.0	1086.1	1086.1	1086.7	1087.0
5°	1050.4	1062.9	1074.0	1078.7	1079.7	1079.7	1078.7	1073.3	1068.5	1070.6
7.5°	1034.8	1053.1	1062.4	1060.8	1048.1	1033.2	1020.7	1005.6	997.7	996.5
10°	1012.6	1033.5	1035.1	1018.4	986.7	955.1	928.8	903.2	891.1	888.1
12.5°	988.0	1007.2	996.5	961.7	910.9	864.8	831.4	805.5	794.1	791.0
15°	968.2	981.3	954.0	899.6	835.6	786.6	759.1	739.8	731.8	729.5
17.5°	957.8	960.5	910.6	836.9	768.8	728.0	710.9	701.8	698.8	697.1
20°	962.9	943.8	869.2	778.7	714.2	685.6	681.6	679.3	678.6	677.5
22.5°	988.0	938.9	831.1	723.3	666.5	654.0	657.4	657.0	656.3	655.7
25°	1033.2	943.3	794.1	670.9	626.4	623.7	629.7	629.7	627.0	627.0
27.5°	1092.8	952.4	752.7	621.0	589.9	590.4	595.0	593.7	590.6	588.7
30°	1165.6	958.1	704.1	576.3	556.1	554.7	556.1	550.2	541.1	540.5
32.5°	1239.9	950.9	647.9	536.5	519.9	517.0	515.8	507.8	497.4	494.3
35°	1307.4	925.1	590.6	504.8	485.7	478.8	483.6	481.0	471.5	469.2
37.5°	1356.5	876.9	539.2	476.8	461.0	459.4	462.4	463.3	452.2	450.0
40°	1389.5	811.6	495.1	453.3	456.2	450.0	439.8	432.8	429.4	428.3
42.5°	1416.1	743.5	458.0	442.1	457.2	438.8	417.0	405.5	411.6	414.2
45°	1446.7	677.2	427.1	428.3	452.2	425.9	401.1	390.0	392.3	393.0
47.5°	1488.9	596.5	393.6	406.2	435.4	417.3	391.3	375.5	364.4	359.3
50°	1547.2	500.7	359.1	381.2	418.9	410.9	376.2	359.3	338.8	334.1
52.5°	1587.5	411.6	330.3	360.3	404.1	398.0	364.1	342.2	320.5	316.6
55°	1565.6	341.9	305.5	337.1	384.6	382.1	353.9	324.6	307.8	304.4
57.5°	1456.2	297.7	286.2	315.2	360.7	368.8	340.5	309.8	297.7	295.4
60°	1247.3	270.1	274.2	300.5	341.1	355.3	327.1	301.7	293.7	291.9
62.5°	967.8	251.5	265.0	289.7	325.9	345.8	319.5	300.8	297.7	295.7
65°	693.4	236.8	255.3	278.8	312.3	337.1	316.9	299.3	300.0	298.3
67.5°	471.2	223.6	243.5	266.6	298.6	329.4	313.1	294.6	303.1	301.0
70°	329.7	210.8	229.6	251.3	281.9	318.5	306.4	287.5	286.9	278.8
72.5°	257.3	193.9	210.8	229.6	260.2	303.4	292.9	271.7	260.7	252.2
73°	245.4	189.9	206.2	224.9	255.6	299.8	289.3	267.3	254.8	247.2
75°	203.0	172.5	187.2	204.1	235.4	282.2	271.1	247.6	231.8	227.0
77.5°	159.5	147.5	161.7	176.7	207.5	256.6	244.2	221.6	212.8	208.8
80°	118.1	122.2	134.7	148.2	179.8	229.3	218.2	195.7	234.6	224.9
82.5°	83.2	92.6	104.1	116.2	150.8	202.7	189.3	166.0	171.8	142.8
85°	49.1	60.6	71.3	81.8	108.8	168.1	156.2	132.3	108.4	103.3
87.5°	28.7	33.6	36.7	47.5	74.7	126.7	110.1	97.9	56.2	38.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)