

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: P269027

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269027
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-01-LED-E1-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4376.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

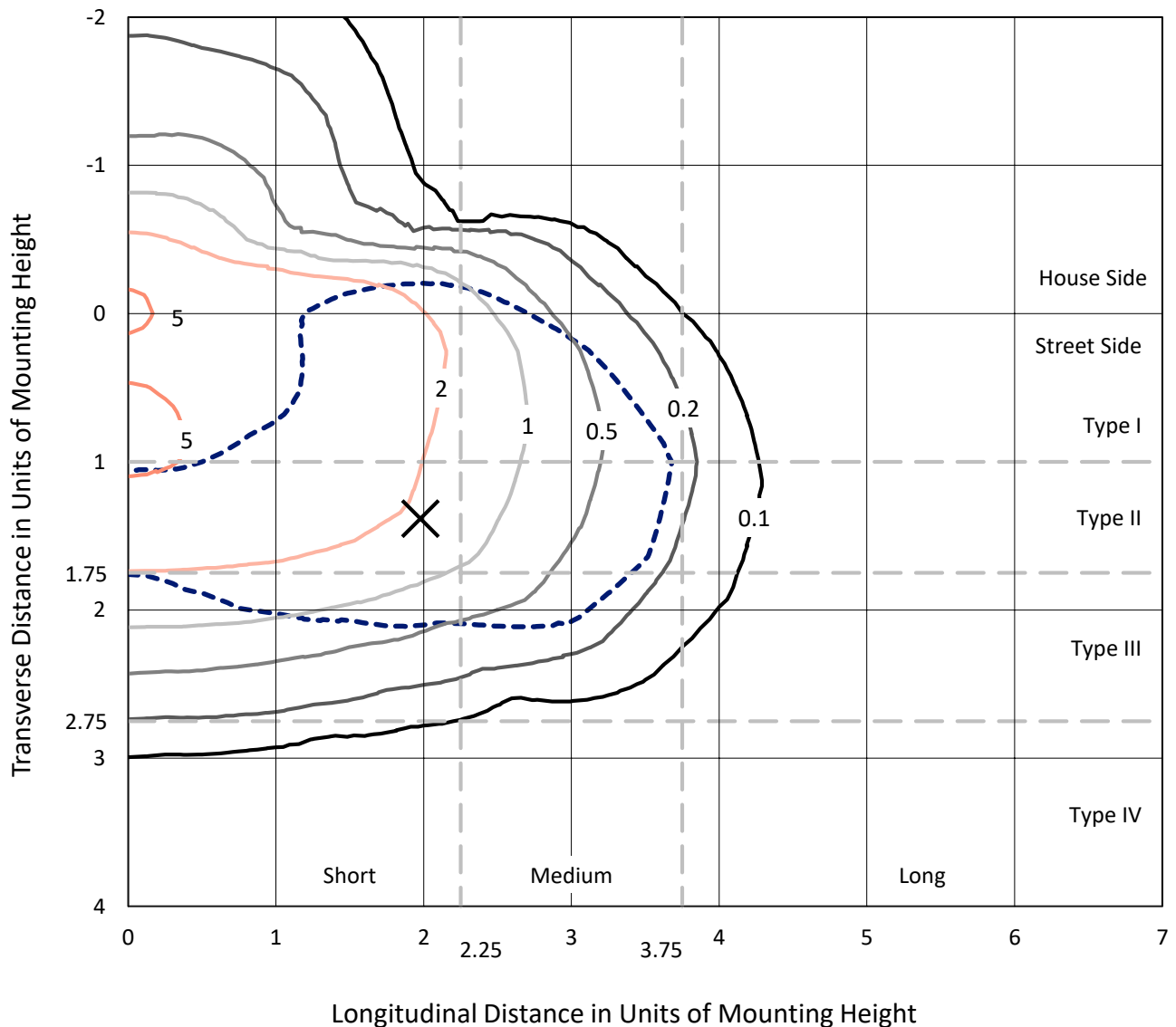
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7027-800

Iso-Footcandle Lines of Horizontal Illumination

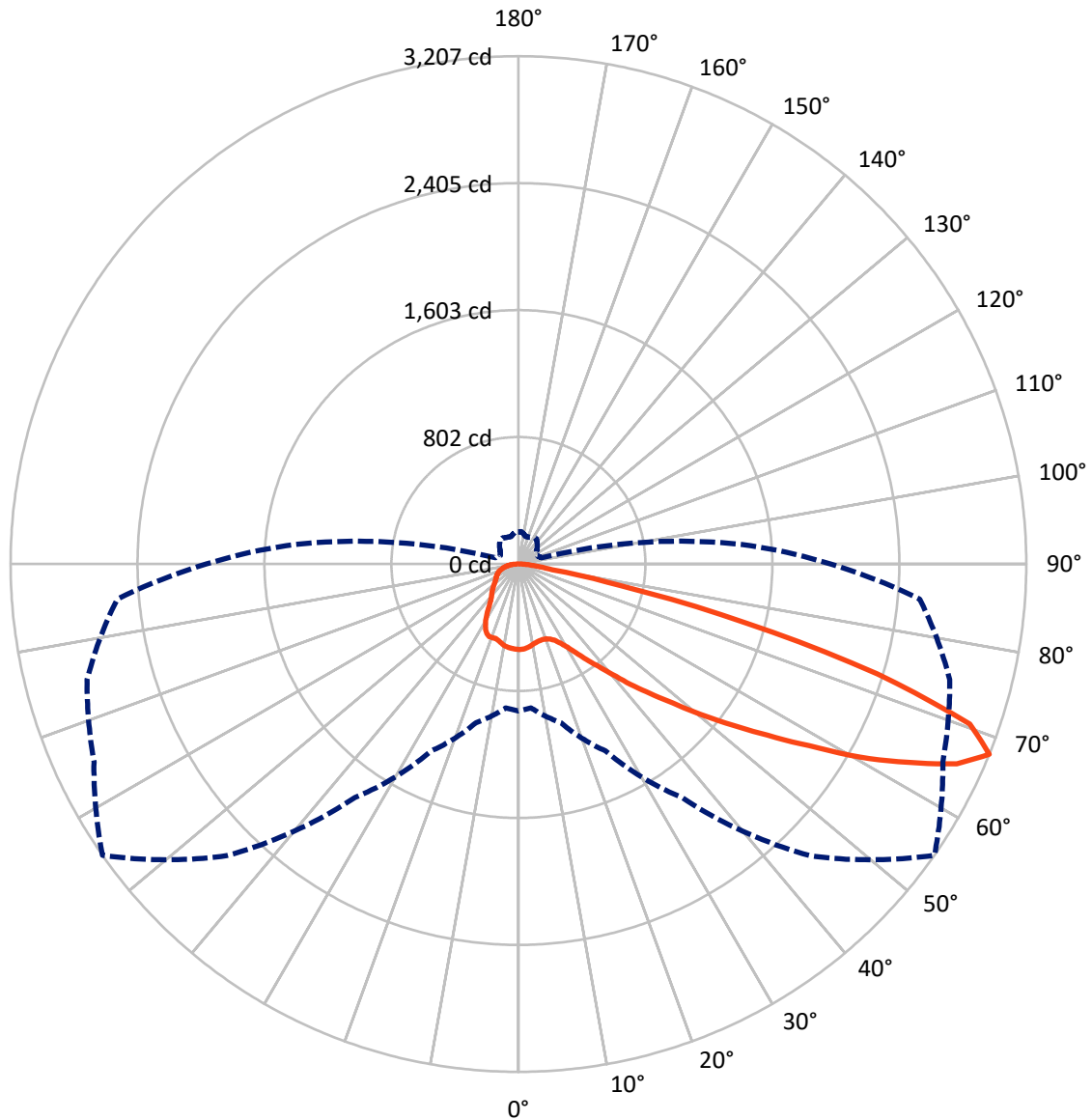
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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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CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.4	0.0	945.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3431.0	0.0	3431.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	4376.4	0.0	4376.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.2
10°-20°	142.7	3.3
20°-30°	239.0	5.5
30°-40°	393.0	9.0
40°-50°	661.5	15.1
50°-60°	1041.1	23.8
60°-70°	1242.5	28.4
70°-80°	533.6	12.2
80°-90°	72.8	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°	4376.4	100.0
0°-180°	4376.4	100.0



REPORT NUMBER: P269027

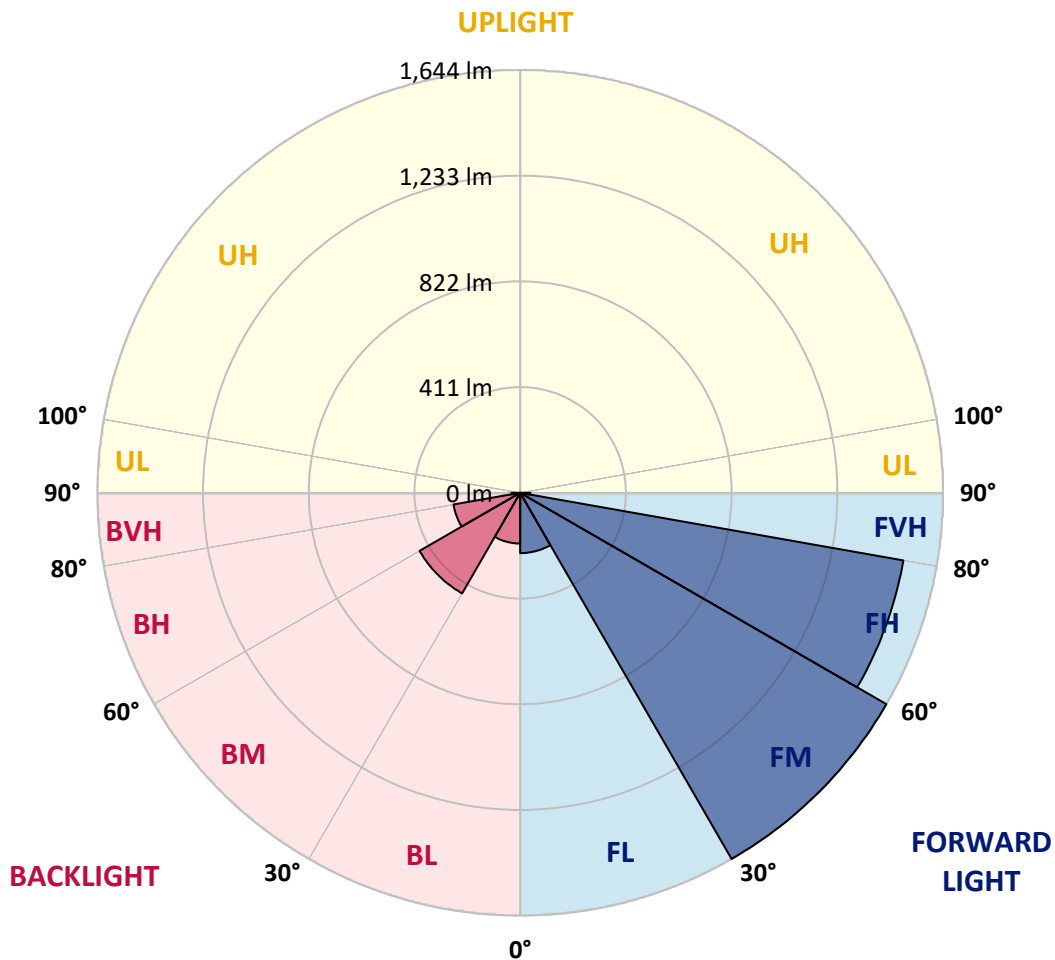
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.6	5.4			
FM	(30°-60°)	1644.1	37.6			
FH	(60°-80°)	1512.9	34.6			G1/1800
FVH	(80°-90°)	39.4	0.9			G1/100
BL	(0°-30°)	197.4	4.5	B1/500		
BM	(30°-60°)	451.5	10.3	B1/1000		
BH	(60°-80°)	263.1	6.0	B1/500		G1/500
BVH	(80°-90°)	33.4	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 III Short





REPORT NUMBER: P269027

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6
2.5°	535.0	535.2	535.7	537.4	538.9	538.4	538.7	537.7	537.5	536.3	537.5
5°	528.3	528.9	529.1	531.8	533.6	534.0	533.4	532.2	531.0	529.7	530.4
7.5°	512.8	514.5	514.6	518.5	521.2	524.9	525.1	525.2	524.7	523.8	525.1
10°	503.1	503.5	503.3	506.0	508.3	512.2	514.5	518.5	520.2	520.7	521.5
12.5°	502.4	502.1	501.4	501.4	500.7	502.4	506.6	512.5	516.4	517.7	518.7
15°	509.2	509.0	507.0	503.7	499.6	498.4	502.1	508.4	513.7	516.4	517.5
17.5°	524.4	523.2	519.8	512.7	503.9	500.5	501.0	506.3	512.5	515.9	517.1
20°	552.4	552.4	545.1	531.6	516.2	508.3	504.4	507.5	513.4	518.3	519.8
22.5°	600.5	601.0	588.8	566.7	540.7	523.6	514.1	513.4	520.4	525.9	527.7
25°	668.8	667.1	650.3	618.6	579.0	550.7	534.1	530.4	536.3	542.3	544.6
27.5°	748.3	742.2	722.1	683.8	632.6	591.3	565.8	559.7	565.5	572.4	574.6
30°	826.9	820.6	796.6	754.8	698.1	645.5	609.2	599.3	607.3	617.2	618.6
32.5°	905.6	905.6	878.9	830.2	768.2	710.5	666.9	655.0	668.3	680.5	683.3
35°	999.6	1000.1	974.2	915.6	848.9	787.9	739.8	731.2	751.3	759.6	766.3
37.5°	1115.2	1117.6	1084.4	1013.4	940.4	876.1	819.2	807.2	827.3	850.3	871.5
40°	1240.2	1243.2	1206.6	1119.1	1046.2	979.0	917.2	895.8	929.2	973.3	1000.5
42.5°	1359.5	1374.6	1339.4	1249.3	1170.9	1101.3	1038.7	1007.7	1049.5	1115.9	1139.6
45°	1531.7	1542.7	1481.1	1399.6	1325.8	1248.0	1165.1	1132.4	1191.0	1274.7	1279.5
47.5°	1646.5	1638.1	1607.0	1556.3	1509.5	1436.7	1312.1	1276.1	1353.9	1452.4	1425.2
50°	1707.6	1710.2	1705.8	1708.8	1710.6	1664.9	1492.2	1442.9	1535.7	1654.7	1591.9
52.5°	1764.6	1747.7	1761.7	1830.9	1914.6	1897.8	1688.2	1636.7	1730.6	1879.3	1768.3
55°	1763.4	1737.6	1783.0	1905.5	2087.0	2106.4	1908.2	1849.0	1936.7	2120.0	1955.2
57.5°	1701.0	1702.3	1772.3	1932.4	2207.0	2302.5	2163.5	2074.7	2155.3	2363.9	2125.7
60°	1615.2	1626.8	1727.6	1928.0	2303.3	2463.4	2476.7	2318.0	2369.4	2585.6	2266.9
62.5°	1476.8	1489.0	1628.1	1881.9	2288.6	2618.4	2760.0	2594.0	2593.2	2720.1	2308.4
65°	1258.3	1254.8	1400.8	1709.7	2166.3	2733.0	3041.4	2832.7	2761.8	2722.3	2225.0
67.5°	927.9	911.9	1037.3	1302.2	1800.6	2604.6	3206.9	2957.0	2819.4	2543.1	1970.5
70°	481.5	465.4	566.9	760.3	1184.1	2032.9	3023.7	2892.8	2692.4	2131.8	1543.7
72.5°	205.9	203.1	244.3	333.6	572.8	1172.6	2370.8	2503.8	2310.3	1588.4	1061.3
75°	138.5	137.6	153.0	181.7	257.6	475.8	1483.7	1777.2	1690.3	984.8	597.0
77.5°	108.7	107.5	116.7	130.7	166.9	187.7	658.5	954.2	883.2	428.8	261.2
80°	85.0	84.1	89.8	97.5	120.1	118.3	216.8	379.7	293.8	164.2	127.0
82.5°	67.1	67.1	71.7	71.9	85.2	80.8	113.0	167.3	146.8	95.8	77.9
85°	61.4	61.4	66.1	53.7	55.5	50.9	70.2	99.2	93.1	39.3	33.9
87.5°	30.8	30.1	55.5	47.6	30.3	27.0	34.2	48.0	51.7	21.7	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269027

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7027-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6
2.5°	537.1	536.8	537.4	537.5	539.3	541.6	542.7	544.2	544.9	544.6
5°	530.8	531.2	533.0	534.1	537.1	540.9	543.0	544.7	546.2	545.6
7.5°	525.5	526.5	529.1	530.2	531.8	533.0	532.6	533.4	534.6	533.1
10°	522.5	523.8	525.7	524.3	520.2	514.5	509.2	506.5	507.4	506.3
12.5°	519.6	521.2	519.8	512.8	501.7	494.2	490.1	490.7	492.5	492.9
15°	518.0	518.5	512.2	499.1	487.7	486.6	488.7	488.3	488.5	488.5
17.5°	518.0	516.2	504.4	491.3	486.4	484.5	478.0	469.8	466.1	464.9
20°	520.7	516.2	501.9	493.2	482.6	466.3	449.0	433.7	427.1	425.1
22.5°	528.9	521.2	509.0	494.0	464.0	436.8	409.3	391.0	378.7	376.7
25°	545.6	537.1	523.2	482.7	434.4	395.6	364.3	344.0	331.7	329.9
27.5°	574.7	569.3	530.8	458.0	395.1	353.5	324.5	308.8	299.8	299.1
30°	618.8	616.0	526.9	421.6	346.7	312.6	298.6	289.7	282.8	282.6
32.5°	688.9	666.7	514.5	376.8	302.5	283.7	277.9	272.5	267.2	267.2
35°	779.2	707.8	490.8	329.0	275.6	267.6	260.4	251.7	244.8	244.3
37.5°	885.3	733.0	448.3	290.6	262.9	256.8	246.2	233.4	221.2	218.9
40°	992.4	740.7	388.5	266.9	254.8	246.0	233.2	217.8	206.2	205.4
42.5°	1090.7	726.1	325.0	250.6	246.9	235.0	221.5	208.0	198.6	198.4
45°	1173.1	688.2	271.8	235.3	238.4	225.1	213.1	202.1	194.9	193.4
47.5°	1250.8	634.8	234.4	218.9	230.0	219.6	209.5	199.2	192.1	191.1
50°	1340.8	577.2	208.1	203.1	222.6	217.7	212.4	201.7	190.0	188.7
52.5°	1449.9	527.1	187.7	189.3	216.9	220.3	220.1	208.9	188.6	186.8
55°	1571.7	471.8	172.2	177.8	214.5	224.9	221.9	215.7	189.8	187.2
57.5°	1691.5	407.1	161.4	169.2	211.2	224.4	212.9	203.7	192.7	189.3
60°	1781.2	320.2	153.3	161.4	203.7	217.5	202.9	190.9	192.1	189.5
62.5°	1787.3	247.6	143.3	155.0	192.5	210.6	196.4	185.2	194.9	192.3
65°	1682.2	187.0	133.8	147.1	180.5	206.2	190.0	181.9	200.6	197.8
67.5°	1416.3	150.5	125.8	139.1	168.5	196.8	184.3	179.0	205.7	200.9
70°	1022.5	128.3	117.9	129.4	157.7	186.2	179.2	173.7	192.0	184.3
72.5°	629.5	111.2	109.1	116.5	149.5	175.2	171.7	163.9	173.0	166.7
75°	314.3	96.4	99.2	103.8	137.8	162.8	159.0	151.2	152.4	151.2
77.5°	150.5	82.5	87.6	91.1	122.8	148.6	144.5	136.5	135.0	135.3
80°	95.3	68.9	73.8	76.3	109.8	132.1	128.1	120.1	137.0	127.0
82.5°	59.6	56.1	57.3	62.0	95.5	115.1	109.8	102.5	123.4	97.6
85°	33.0	39.0	40.9	44.8	73.5	96.2	90.9	81.7	73.3	72.0
87.5°	19.7	23.3	23.9	26.9	49.4	69.6	61.5	58.3	48.4	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)