

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: P193969

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193969  
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-T3-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3351 lumens  
Efficiency: N/A  
Efficacy: 98.6 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

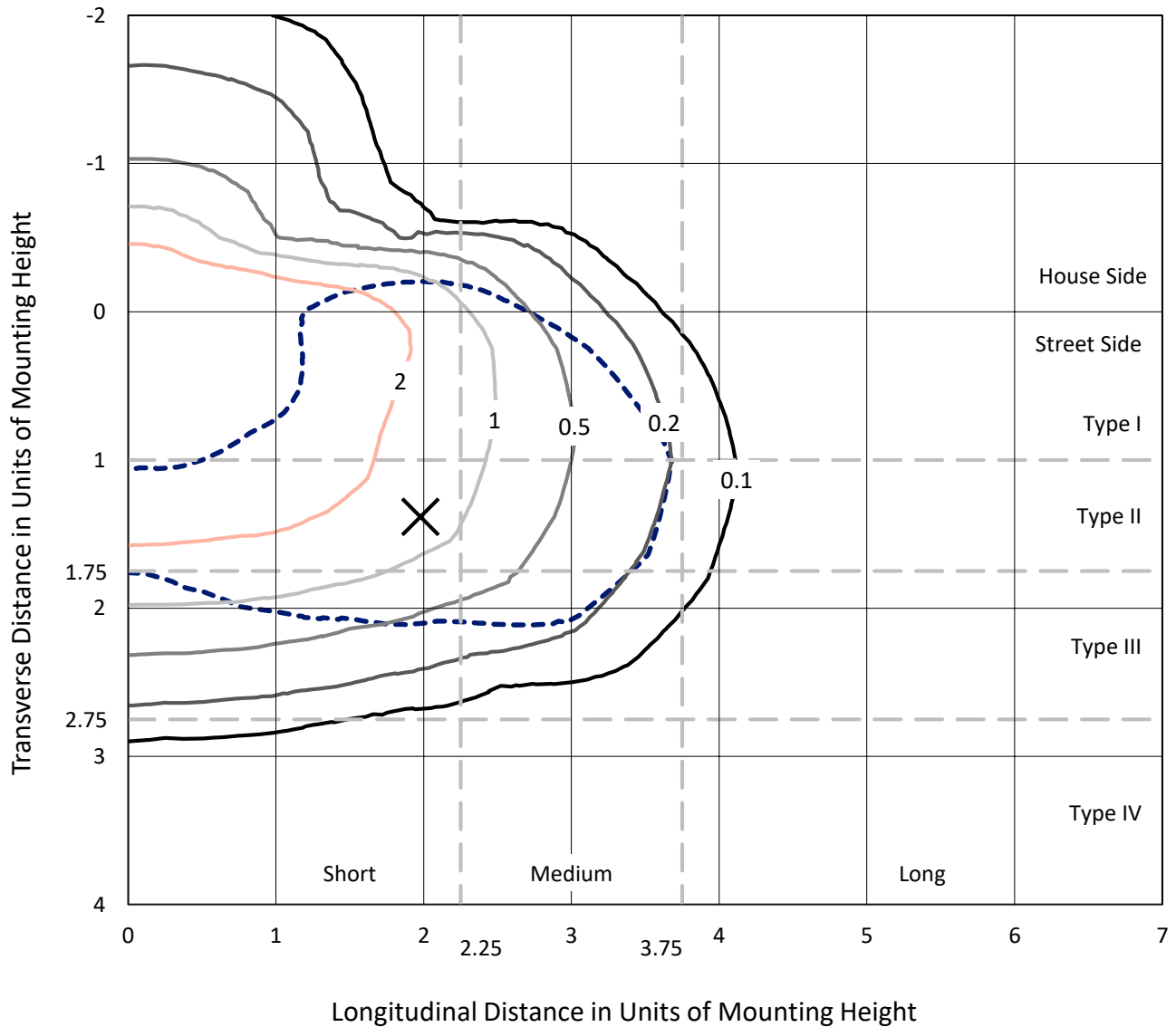
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

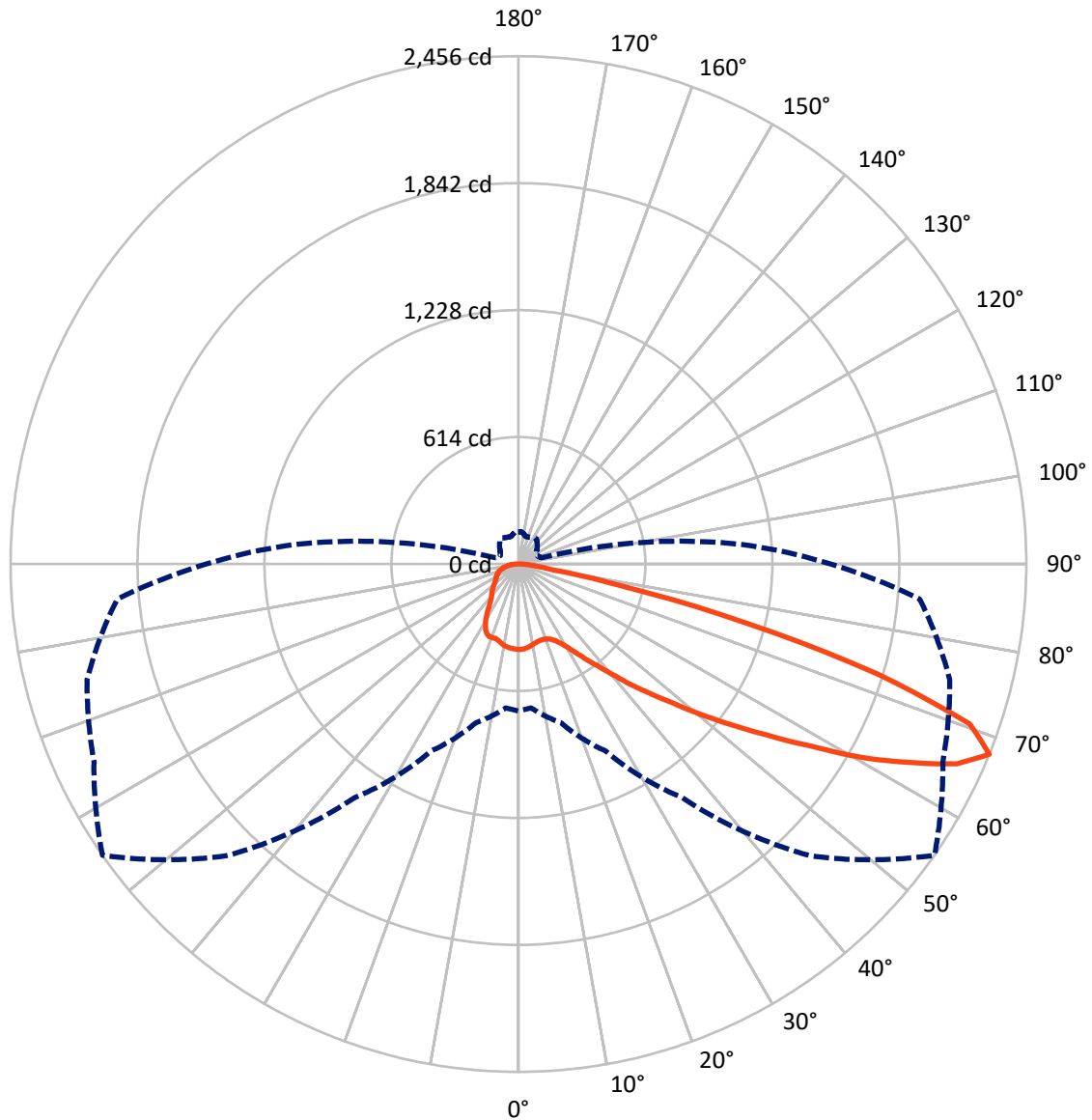
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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
<b>House Side</b>	Lumens	723.9	0.0	723.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	2627.1	0.0	2627.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	3351.0	0.0	3351.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	1.2
10°-20°	109.2	3.3
20°-30°	183.0	5.5
30°-40°	300.9	9.0
40°-50°	506.5	15.1
50°-60°	797.2	23.8
60°-70°	951.4	28.4
70°-80°	408.5	12.2
80°-90°	55.7	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°	3351.0	100.0
0°-180°	3351.0	100.0



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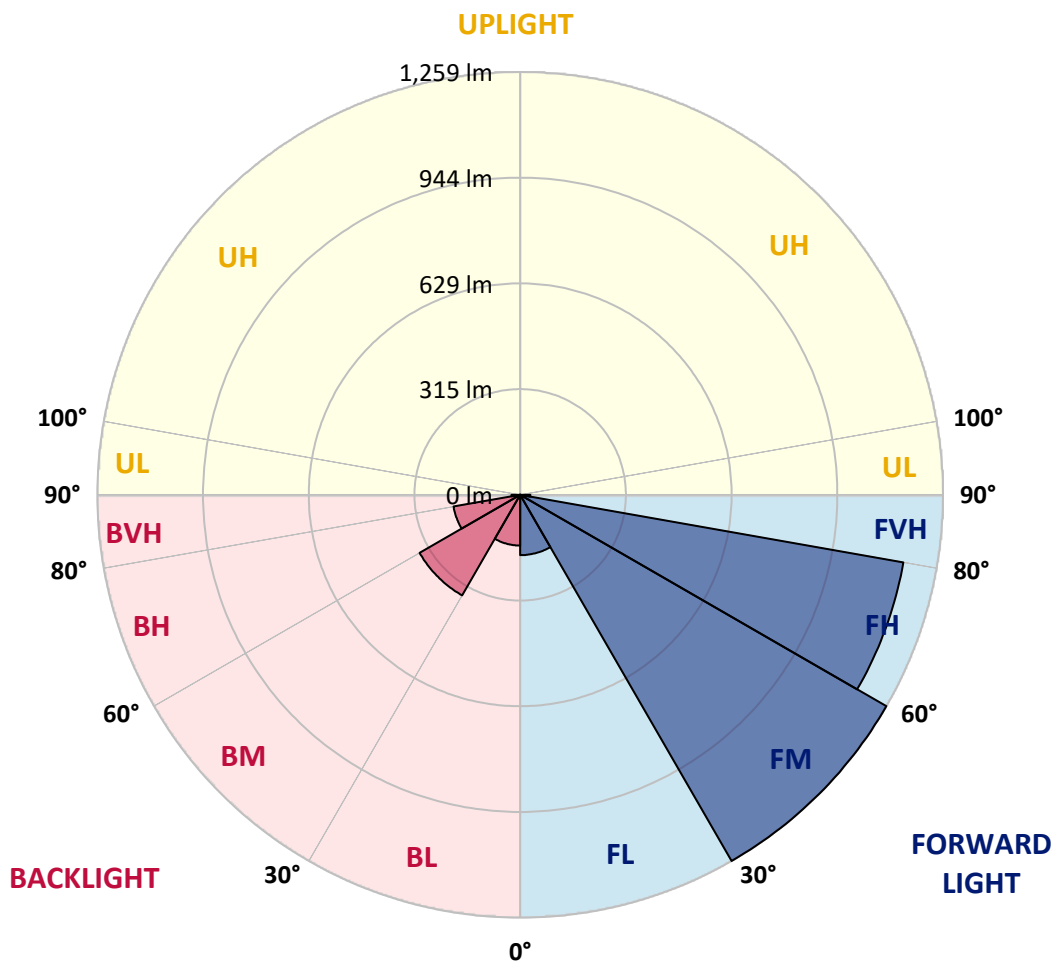
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.6	5.4			
FM	(30°-60°)	1258.9	37.6			
FH	(60°-80°)	1158.5	34.6			G1/1800
FVH	(80°-90°)	30.1	0.9			G1/100
BL	(0°-30°)	151.2	4.5	B1/500		
BM	(30°-60°)	345.7	10.3	B1/1000		
BH	(60°-80°)	201.5	6.0	B1/500		G1/500
BVH	(80°-90°)	25.5	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	409.7	409.8	410.1	411.4	412.6	412.2	412.4	411.8	411.6	410.6	411.6
5°	404.5	405.0	405.1	407.2	408.5	408.8	408.4	407.5	406.6	405.6	406.1
7.5°	392.7	394.0	394.1	397.0	399.1	401.9	402.0	402.2	401.7	401.1	402.0
10°	385.2	385.5	385.4	387.5	389.1	392.2	394.0	397.0	398.3	398.6	399.3
12.5°	384.7	384.4	383.9	383.9	383.4	384.7	388.0	392.3	395.4	396.4	397.2
15°	389.9	389.7	388.1	385.7	382.6	381.7	384.4	389.3	393.3	395.4	396.2
17.5°	401.6	400.6	398.0	392.5	385.9	383.3	383.6	387.6	392.3	395.1	395.9
20°	422.9	422.9	417.4	407.1	395.2	389.1	386.2	388.6	393.1	396.9	398.0
22.5°	459.8	460.2	450.9	433.9	414.0	400.9	393.6	393.1	398.5	402.7	404.0
25°	512.1	510.8	497.9	473.6	443.3	421.6	409.0	406.1	410.6	415.3	416.9
27.5°	573.0	568.3	552.9	523.6	484.4	452.7	433.3	428.6	433.0	438.3	439.9
30°	633.2	628.3	610.0	578.0	534.4	494.3	466.5	458.9	465.0	472.6	473.6
32.5°	693.4	693.4	673.0	635.6	588.2	544.0	510.7	501.6	511.8	521.0	523.1
35°	765.4	765.7	746.0	701.0	650.0	603.2	566.5	559.9	575.2	581.7	586.7
37.5°	853.9	855.7	830.3	775.9	720.1	670.9	627.2	618.1	633.5	651.1	667.3
40°	949.6	951.9	923.9	856.9	801.0	749.5	702.3	685.9	711.5	745.2	766.1
42.5°	1040.9	1052.5	1025.5	956.6	896.5	843.3	795.4	771.6	803.6	854.4	872.6
45°	1172.8	1181.2	1134.1	1071.6	1015.2	955.6	892.1	867.1	911.9	976.0	979.7
47.5°	1260.7	1254.4	1230.4	1191.6	1155.8	1100.1	1004.6	977.1	1036.7	1112.1	1091.2
50°	1307.5	1309.4	1306.2	1308.4	1309.7	1274.8	1142.5	1104.8	1175.9	1267.0	1218.9
52.5°	1351.2	1338.2	1348.9	1402.0	1466.1	1453.1	1292.6	1253.2	1325.1	1438.9	1353.9
55°	1350.2	1330.4	1365.2	1459.0	1598.0	1612.9	1461.1	1415.7	1482.9	1623.2	1497.0
57.5°	1302.4	1303.4	1357.0	1479.7	1689.9	1763.1	1656.6	1588.6	1650.3	1810.0	1627.6
60°	1236.7	1245.6	1322.8	1476.3	1763.6	1886.3	1896.5	1774.9	1814.2	1979.8	1735.7
62.5°	1130.7	1140.1	1246.6	1441.0	1752.4	2004.9	2113.3	1986.3	1985.6	2082.7	1767.5
65°	963.5	960.8	1072.6	1309.1	1658.7	2092.6	2328.8	2169.0	2114.8	2084.4	1703.7
67.5°	710.5	698.2	794.2	997.0	1378.7	1994.4	2455.5	2264.2	2158.8	1947.3	1508.8
70°	368.7	356.4	434.1	582.2	906.7	1556.6	2315.2	2215.0	2061.5	1632.3	1182.0
72.5°	157.6	155.5	187.1	255.4	438.6	897.8	1815.4	1917.2	1768.9	1216.2	812.7
75°	106.0	105.4	117.2	139.2	197.3	364.3	1136.1	1360.9	1294.2	754.1	457.1
77.5°	83.2	82.4	89.3	100.0	127.9	143.7	504.2	730.6	676.2	328.2	200.1
80°	65.1	64.4	68.8	74.6	91.9	90.6	165.9	290.7	225.0	125.8	97.3
82.5°	51.3	51.3	54.9	55.0	65.2	61.8	86.6	128.0	112.3	73.3	59.6
85°	46.9	46.9	50.7	41.1	42.6	39.0	53.7	75.9	71.2	30.1	25.9
87.5°	23.6	23.0	42.6	36.4	23.1	20.7	26.2	36.7	39.5	16.7	12.9
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°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	411.3	411.1	411.4	411.6	412.9	414.7	415.5	416.6	417.3	416.9
5°	406.4	406.7	408.0	409.0	411.3	414.2	415.8	417.1	418.2	417.7
7.5°	402.4	403.2	405.1	405.9	407.2	408.0	407.9	408.4	409.3	408.2
10°	400.1	401.1	402.5	401.4	398.3	394.0	389.9	387.8	388.5	387.6
12.5°	397.8	399.1	398.0	392.7	384.1	378.4	375.3	375.7	377.1	377.4
15°	396.5	397.0	392.2	382.1	373.4	372.6	374.2	373.9	374.0	374.0
17.5°	396.5	395.2	386.2	376.2	372.4	371.0	366.0	359.6	356.9	355.9
20°	398.6	395.2	384.2	377.6	369.5	357.1	343.8	332.1	326.9	325.5
22.5°	405.0	399.1	389.7	378.3	355.3	334.4	313.4	299.4	290.0	288.4
25°	417.7	411.3	400.6	369.7	332.6	302.8	278.9	263.3	253.9	252.7
27.5°	440.1	435.9	406.4	350.7	302.5	270.6	248.4	236.5	229.5	229.0
30°	473.7	471.6	403.5	322.7	265.4	239.4	228.7	221.7	216.6	216.4
32.5°	527.5	510.5	394.0	288.6	231.6	217.2	212.8	208.6	204.6	204.6
35°	596.6	541.9	375.8	252.0	211.1	204.9	199.4	192.8	187.4	187.1
37.5°	677.8	561.3	343.3	222.6	201.3	196.7	188.6	178.7	169.3	167.7
40°	759.9	567.1	297.5	204.4	195.2	188.4	178.5	166.9	157.8	157.3
42.5°	835.2	556.0	248.9	192.0	189.0	180.0	169.6	159.3	152.1	152.0
45°	898.3	527.0	208.1	180.1	182.6	172.4	163.1	154.7	149.2	148.1
47.5°	957.7	486.0	179.5	167.7	176.1	168.2	160.4	152.5	147.1	146.3
50°	1026.6	441.9	159.4	155.5	170.4	166.7	162.7	154.4	145.5	144.5
52.5°	1110.2	403.7	143.7	144.9	166.1	168.7	168.5	159.9	144.4	143.1
55°	1203.4	361.3	131.9	136.1	164.3	172.2	169.9	165.1	145.3	143.4
57.5°	1295.2	311.7	123.7	129.5	161.7	171.9	163.0	156.0	147.6	144.9
60°	1363.9	245.2	117.3	123.7	156.0	166.5	155.4	146.2	147.1	145.0
62.5°	1368.5	189.5	109.7	118.6	147.4	161.2	150.4	141.8	149.2	147.3
65°	1288.0	143.2	102.5	112.7	138.2	157.8	145.5	139.4	153.6	151.5
67.5°	1084.4	115.2	96.3	106.5	129.0	150.7	141.1	137.1	157.5	153.8
70°	782.9	98.2	90.3	99.1	120.7	142.6	137.3	133.0	147.0	141.1
72.5°	482.0	85.1	83.5	89.2	114.4	134.2	131.4	125.4	132.4	127.7
75°	240.7	73.8	75.9	79.5	105.5	124.6	121.7	115.7	116.7	115.7
77.5°	115.2	63.1	67.0	69.8	94.0	113.8	110.7	104.6	103.4	103.6
80°	73.0	52.8	56.5	58.4	84.0	101.2	98.1	91.9	104.9	97.3
82.5°	45.6	42.9	43.9	47.4	73.2	88.0	84.0	78.5	94.5	74.8
85°	25.2	29.9	31.2	34.3	56.3	73.6	69.6	62.6	56.2	55.2
87.5°	15.1	17.8	18.3	20.6	37.9	53.3	47.1	44.7	37.1	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)