

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: P194089

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-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

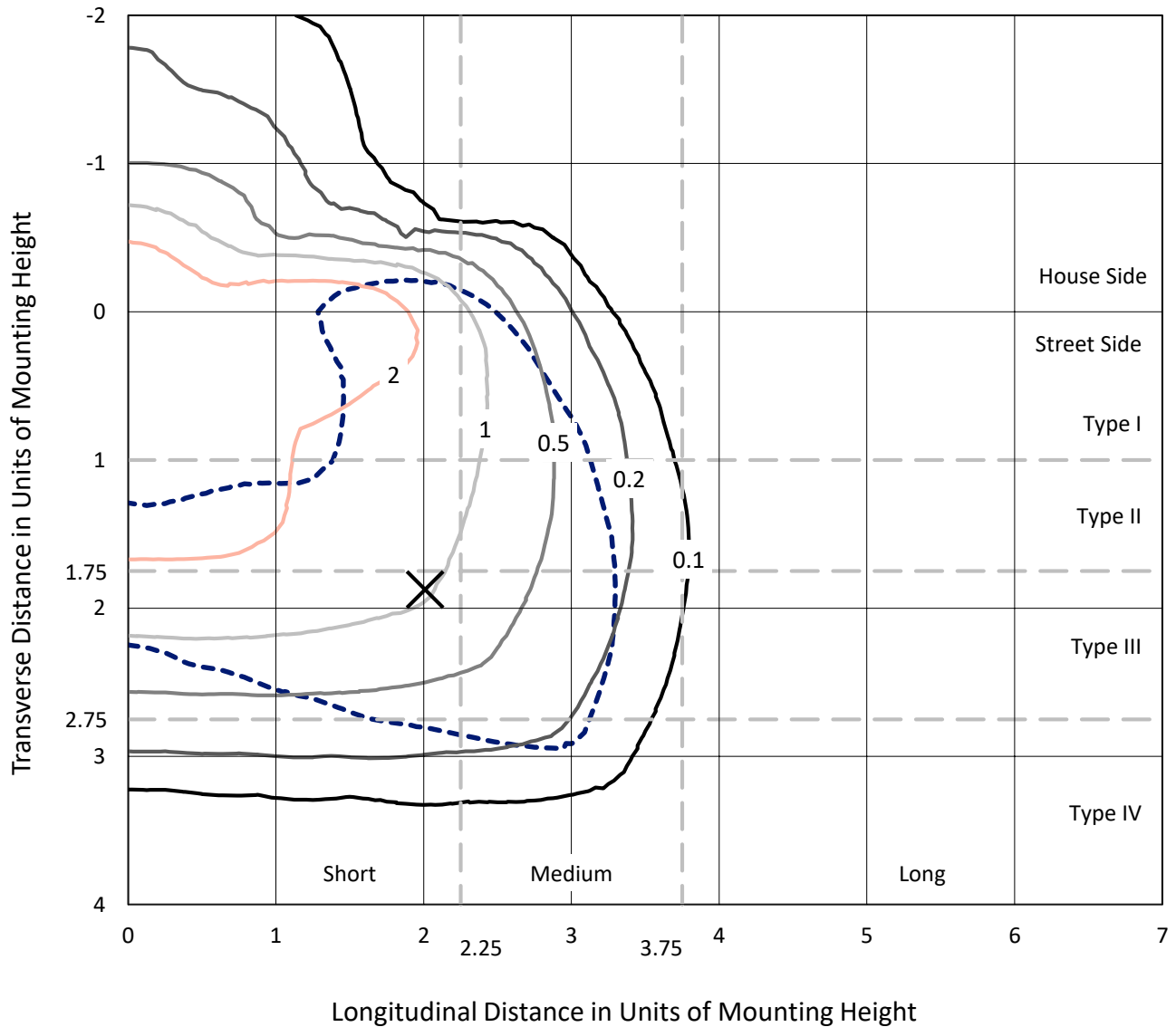


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

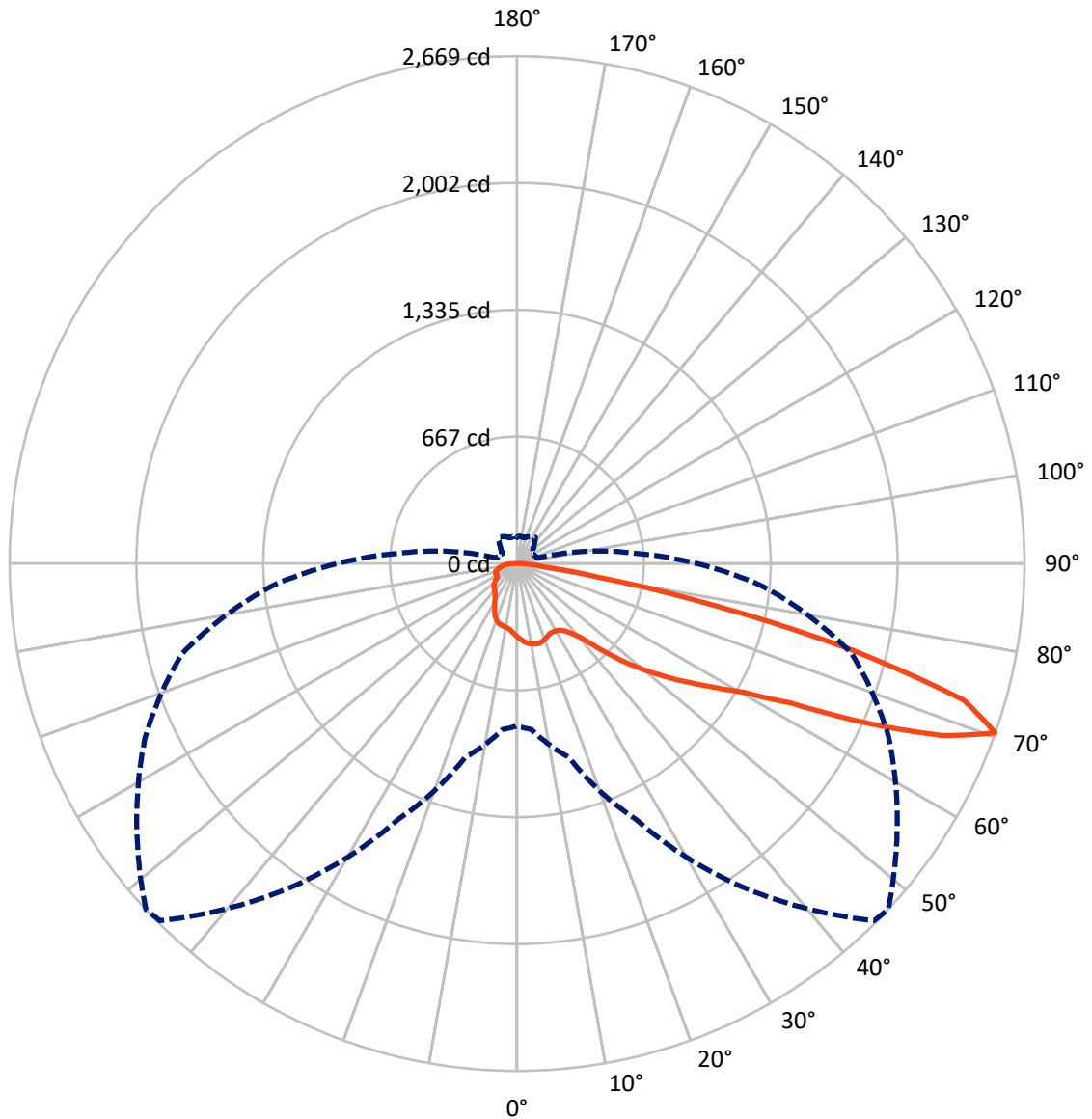


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.1	0.0	694.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	2632.9	0.0	2632.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	3327.0	0.0	3327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.1
10°-20°	108.5	3.3
20°-30°	160.2	4.8
30°-40°	232.9	7.0
40°-50°	419.2	12.6
50°-60°	726.2	21.8
60°-70°	1036.4	31.2
70°-80°	532.1	16.0
80°-90°	74.5	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°	3327.0	100.0
0°-180°	3327.0	100.0

Coefficient of Utilization



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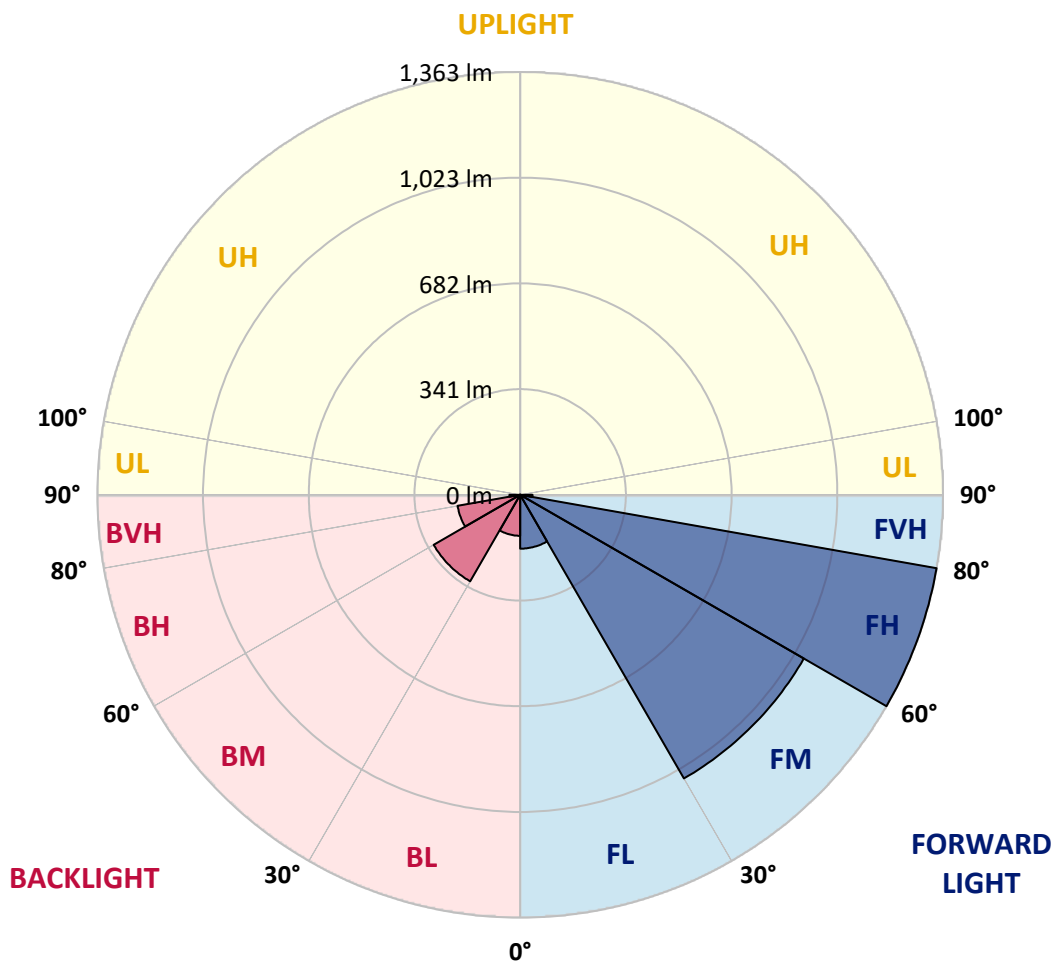
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.6	5.2			
FM (30°-60°)	1056.1	31.7			
FH (60°-80°)	1363.5	41.0			G1/1800
FVH (80°-90°)	39.7	1.2			G1/100
BL (0°-30°)	132.2	4.0	B1/500		
BM (30°-60°)	322.2	9.7	B1/1000		
BH (60°-80°)	205.0	6.2	B1/500		G1/500
BVH (80°-90°)	34.7	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0
2.5°	408.7	407.9	407.6	406.9	406.1	402.1	401.3	398.3	394.3	390.1	385.7
5°	435.6	435.4	433.6	430.4	425.2	416.3	414.2	407.1	397.5	388.3	379.1
7.5°	459.2	457.7	454.3	447.9	438.8	426.7	423.7	413.9	400.8	388.1	375.7
10°	476.5	475.7	468.3	459.4	447.5	434.1	430.7	419.7	405.3	389.3	373.7
12.5°	486.4	484.8	476.2	465.5	451.4	438.3	434.9	423.7	407.6	389.3	371.0
15°	485.7	484.6	476.0	464.4	450.1	438.6	435.6	424.4	407.1	387.7	367.4
17.5°	472.8	473.3	466.0	454.5	442.8	434.1	431.4	421.0	403.8	384.4	363.2
20°	450.1	452.4	447.5	437.3	430.9	424.9	423.1	414.4	398.8	379.7	358.7
22.5°	427.5	429.6	427.6	419.1	418.1	414.5	413.6	407.2	394.5	376.8	355.9
25°	410.8	412.7	412.4	405.0	407.9	407.7	406.9	403.8	393.5	376.8	356.4
27.5°	406.3	406.9	406.3	399.5	403.5	406.8	406.1	405.6	396.4	381.5	362.6
30°	421.8	420.8	415.8	402.1	405.8	410.3	409.7	410.0	405.1	393.8	376.3
32.5°	483.8	479.4	463.6	424.9	415.0	417.4	417.8	423.1	423.9	412.7	397.7
35°	576.5	571.7	551.1	486.1	443.7	435.2	435.2	443.3	448.2	439.9	430.9
37.5°	674.8	669.5	658.4	570.9	503.9	466.2	465.3	471.0	478.0	479.9	482.2
40°	786.5	780.8	783.9	666.1	587.9	519.7	508.2	504.2	523.0	535.4	553.6
42.5°	908.7	906.1	907.2	772.1	683.5	599.9	583.5	562.6	585.3	607.5	645.5
45°	1021.8	1024.1	1023.0	885.5	790.0	697.6	680.3	639.8	662.0	700.0	762.0
47.5°	1120.9	1111.5	1126.1	1009.5	909.3	807.0	785.7	731.4	753.9	800.9	905.8
50°	1241.1	1239.8	1218.5	1174.9	1053.5	916.9	888.9	826.1	861.1	926.3	1086.9
52.5°	1367.6	1344.1	1324.5	1303.6	1206.5	1029.6	995.3	920.5	987.0	1069.1	1307.7
55°	1393.5	1382.9	1407.2	1442.3	1354.0	1146.6	1106.6	1038.8	1128.8	1232.2	1562.3
57.5°	1448.8	1448.6	1498.8	1561.5	1505.8	1270.8	1230.5	1181.7	1288.2	1419.2	1832.6
60°	1486.2	1496.7	1589.9	1711.5	1654.9	1414.2	1377.1	1346.7	1469.5	1628.1	2084.4
62.5°	1505.8	1520.0	1647.2	1772.4	1865.6	1652.9	1615.8	1572.0	1709.4	1857.3	2231.7
65°	1424.4	1452.4	1638.3	1825.0	2050.1	2039.9	2023.2	1946.2	2009.3	2038.5	2178.5
67.5°	1199.1	1227.7	1444.3	1775.9	2181.9	2413.2	2416.7	2285.1	2193.8	2054.0	1831.6
70°	854.3	876.8	1056.0	1488.9	2081.5	2657.1	2669.2	2441.3	2157.1	1821.6	1279.7
72.5°	405.6	419.4	589.0	969.1	1651.8	2434.5	2458.0	2241.9	1834.2	1348.6	698.1
75°	149.1	153.3	199.1	412.3	958.0	1795.3	1823.0	1607.1	1215.9	671.4	265.9
77.5°	89.3	92.1	111.7	174.0	376.8	1026.2	1067.1	874.0	531.4	249.9	130.8
80°	62.5	64.4	80.1	108.3	178.0	391.1	427.5	356.7	211.7	158.1	95.2
82.5°	42.2	43.2	56.3	73.2	118.3	139.7	150.7	158.6	142.8	117.7	60.4
85°	27.7	28.6	38.2	48.2	75.3	72.2	73.8	93.4	104.2	80.0	33.5
87.5°	15.9	16.5	23.0	25.7	36.9	30.6	30.9	49.2	66.7	53.9	20.4
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°	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0
2.5°	384.6	382.5	377.8	374.9	372.1	371.5	370.3	370.2	370.0	370.0	369.5
5°	376.0	372.4	365.2	361.1	357.7	357.4	357.2	358.0	358.4	358.7	358.2
7.5°	370.5	365.6	356.6	350.8	346.7	345.7	347.4	351.1	353.5	354.5	354.0
10°	367.1	361.1	350.6	344.3	340.9	340.4	342.5	346.9	351.9	353.8	353.7
12.5°	363.2	356.4	345.2	338.6	336.7	337.6	340.4	344.4	349.6	352.7	352.9
15°	359.3	351.4	339.9	334.1	333.3	334.6	337.2	340.2	344.3	347.4	347.7
17.5°	354.6	346.4	334.9	328.9	328.3	328.9	329.1	330.7	333.3	336.2	337.0
20°	349.6	341.2	329.2	323.2	320.3	317.7	314.8	315.1	316.0	318.9	319.5
22.5°	346.1	337.6	324.9	316.6	308.8	301.1	295.2	294.4	294.7	297.2	298.0
25°	346.4	337.5	323.7	309.5	292.5	280.0	272.2	271.0	270.8	272.6	273.7
27.5°	352.7	343.8	327.9	302.2	274.7	256.2	248.0	247.0	245.7	246.2	247.5
30°	366.8	358.5	338.1	294.7	255.4	232.9	224.3	223.4	221.6	220.8	221.7
32.5°	389.8	383.0	353.0	287.6	236.2	213.0	204.3	202.2	201.0	200.1	200.9
35°	428.0	425.0	372.9	279.9	219.2	197.6	189.7	186.5	184.8	186.6	187.9
37.5°	487.8	489.5	399.0	267.7	206.0	187.4	180.8	177.1	174.6	176.1	177.6
40°	572.7	573.8	427.8	250.6	194.7	181.4	174.3	170.9	167.5	164.9	164.8
42.5°	684.0	672.5	456.1	231.9	181.6	177.7	169.8	165.6	160.4	153.3	151.8
45°	816.1	775.8	477.6	210.6	166.9	173.2	164.8	158.9	150.9	143.1	142.3
47.5°	968.2	886.7	488.2	188.4	153.1	166.6	158.6	149.4	139.2	135.3	134.8
50°	1154.1	1018.3	493.2	166.9	141.1	157.8	149.7	138.9	130.3	129.5	129.0
52.5°	1365.6	1176.6	494.8	149.2	131.3	146.5	142.4	131.9	125.1	125.8	125.8
55°	1587.0	1340.0	472.8	136.4	122.2	134.8	137.6	129.2	123.5	126.1	127.1
57.5°	1790.3	1484.9	403.5	126.6	113.6	125.9	135.8	131.8	127.9	138.4	139.0
60°	1946.4	1570.5	301.4	117.7	107.3	122.9	140.5	141.6	142.6	167.7	171.1
62.5°	1979.1	1542.0	207.2	110.7	104.4	125.4	149.1	149.2	148.1	165.6	167.7
65°	1829.0	1361.9	150.7	106.8	102.0	130.1	156.4	153.0	145.5	158.8	154.9
67.5°	1452.5	1026.0	125.4	103.9	98.4	129.8	164.1	156.4	144.1	155.5	149.2
70°	942.8	620.4	111.7	101.5	94.2	123.7	168.7	156.0	139.8	144.7	137.3
72.5°	460.0	277.4	102.5	97.9	89.8	115.1	168.5	153.1	135.5	135.2	131.1
75°	180.0	127.1	94.0	92.6	82.4	105.4	164.0	148.9	130.3	125.1	123.7
77.5°	105.4	90.6	83.4	84.7	73.5	95.7	157.3	141.6	123.2	117.0	115.4
80°	76.7	67.8	71.1	73.2	62.8	85.9	148.4	132.7	115.2	118.3	116.1
82.5°	49.2	43.7	57.6	59.7	52.3	76.1	138.7	123.3	104.1	94.5	92.3
85°	25.1	27.7	42.9	45.5	40.3	62.5	126.9	110.9	91.5	78.7	80.0
87.5°	14.1	18.9	27.4	30.6	28.5	48.1	102.9	91.5	74.6	60.7	53.4
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)