

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: P193249

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193249
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-01-LED-E1-T4FT-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3995.6 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

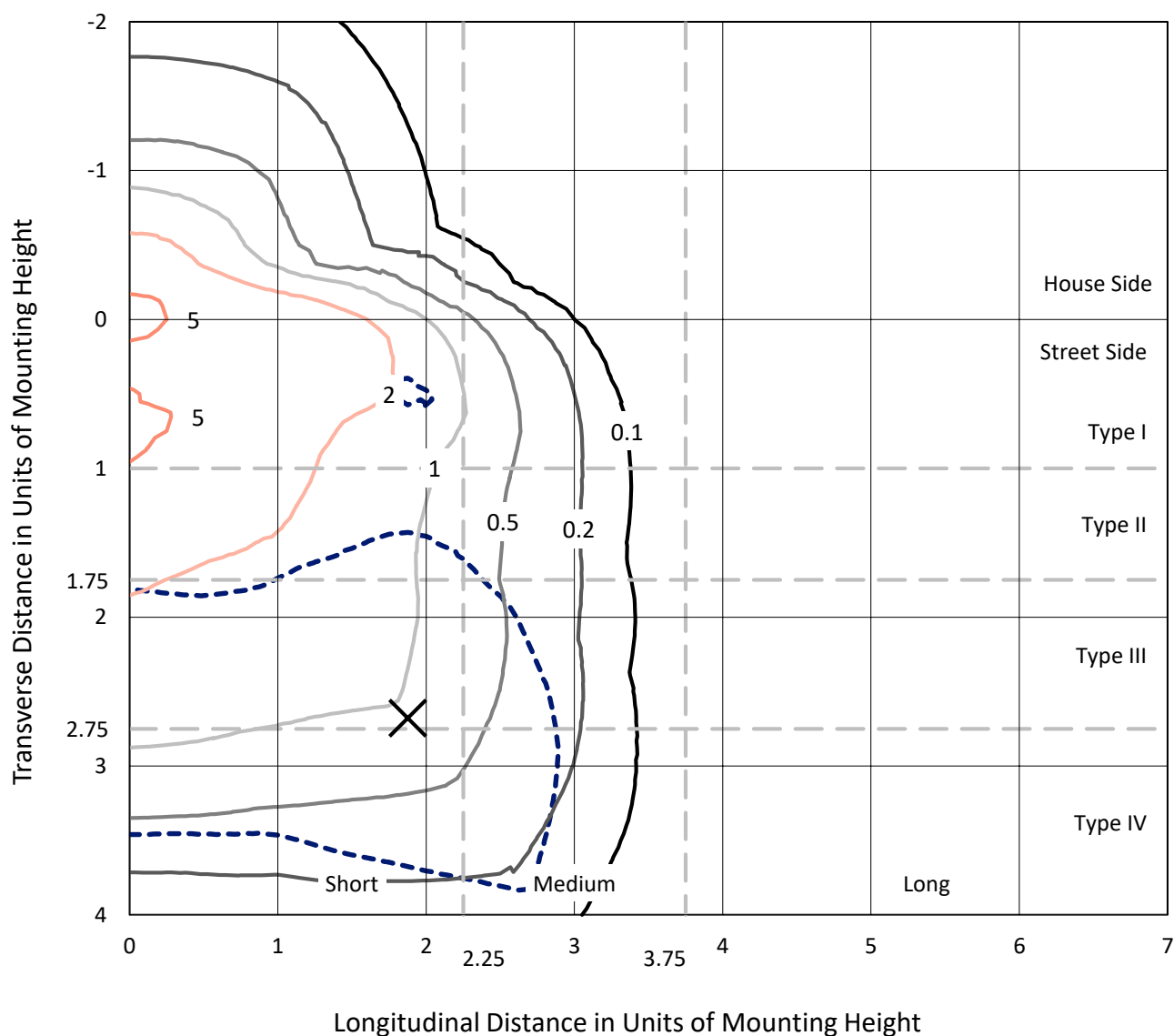


REPORT NUMBER: P193249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T4FT-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

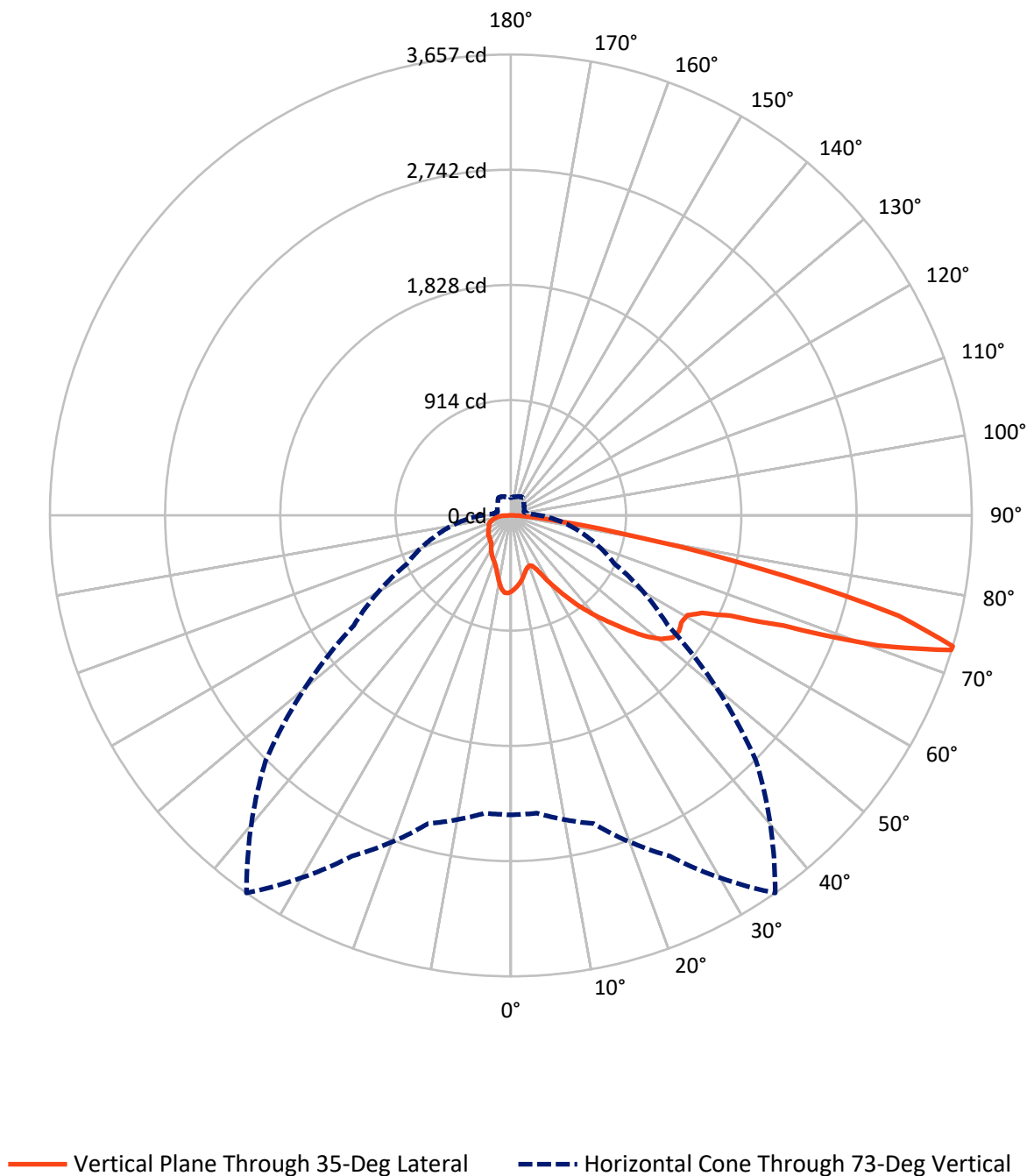


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T4FT-7030-600

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	762.1	0.0	762.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3233.5	0.0	3233.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	3995.6	0.0	3995.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.4
10°-20°	136.3	3.4
20°-30°	220.3	5.5
30°-40°	369.4	9.2
40°-50°	569.4	14.3
50°-60°	763.9	19.1
60°-70°	1017.7	25.5
70°-80°	776.2	19.4
80°-90°	88.0	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°	3995.6	100.0
0°-180°	3995.6	100.0

Coefficient of Utilization



REPORT NUMBER: P193249

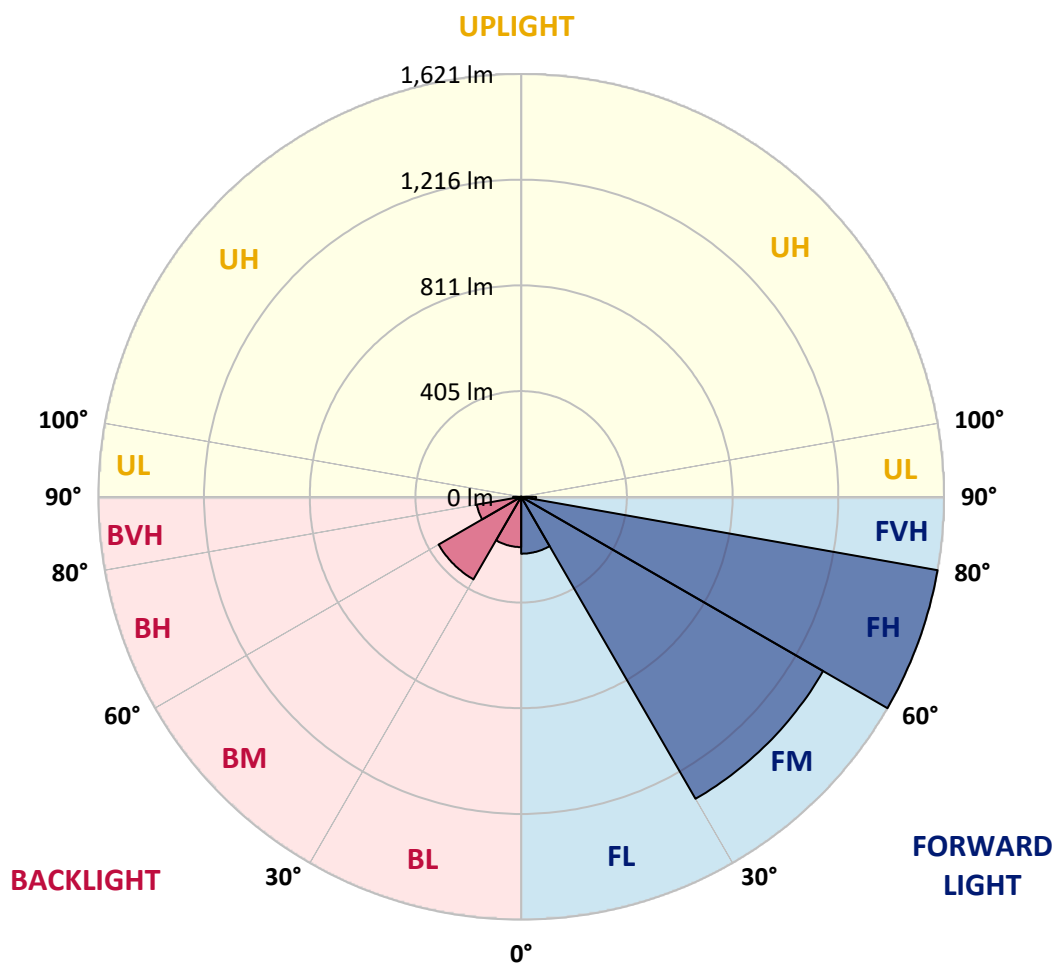
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.3	5.5			
FM	(30°-60°)	1337.0	33.5			
FH	(60°-80°)	1621.4	40.6			G1/1800
FVH	(80°-90°)	56.9	1.4			G1/100
BL	(0°-30°)	192.8	4.8	B1/500		
BM	(30°-60°)	365.7	9.2	B1/1000		
BH	(60°-80°)	172.4	4.3	B1/500		G1/500
BVH	(80°-90°)	31.1	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 IV Short



REPORT NUMBER: P193249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T4FT-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1
2.5°	579.3	580.3	579.1	580.8	583.7	586.7	588.9	591.9	595.4	600.2	601.4
5°	552.0	553.7	553.7	556.7	562.3	567.4	572.0	577.0	584.2	592.5	595.8
7.5°	522.0	523.1	524.8	529.4	537.4	544.5	551.1	559.1	569.1	580.0	585.7
10°	485.9	487.4	490.0	496.6	507.5	517.4	526.7	537.8	550.4	564.1	571.4
12.5°	460.5	460.1	461.3	466.1	475.6	487.6	501.2	515.3	530.9	546.9	555.7
15°	451.9	449.7	445.3	444.1	449.4	461.3	477.0	494.5	513.1	532.3	543.2
17.5°	457.2	453.7	441.5	432.6	431.9	441.0	457.6	477.3	498.7	522.0	535.7
20°	491.0	482.4	452.7	432.1	425.0	429.4	444.0	464.7	490.0	521.1	538.5
22.5°	571.8	559.1	496.0	457.8	433.9	428.4	439.4	461.5	491.0	533.0	555.2
25°	689.4	671.4	570.5	521.9	472.4	443.8	446.4	468.9	504.7	560.6	587.5
27.5°	782.3	770.6	667.7	612.3	542.6	485.2	468.7	487.8	532.4	606.0	633.3
30°	837.6	830.5	771.7	714.8	632.2	551.2	511.8	523.1	576.1	668.6	691.3
32.5°	901.6	897.3	868.6	816.2	729.0	638.0	579.8	575.8	634.4	744.0	754.4
35°	968.0	966.6	949.8	912.2	832.8	752.4	670.2	643.0	697.8	822.4	815.8
37.5°	1029.8	1027.5	1017.7	995.8	941.4	875.1	762.3	711.9	766.4	897.2	868.3
40°	1143.6	1125.6	1091.9	1075.4	1051.1	978.5	835.4	776.2	837.4	968.6	913.5
42.5°	1282.2	1252.9	1190.4	1167.8	1164.2	1060.2	885.3	838.4	908.9	1039.4	957.9
45°	1391.5	1363.9	1309.9	1281.4	1293.9	1134.0	935.4	905.1	982.6	1113.7	1003.9
47.5°	1508.0	1464.6	1393.2	1401.8	1429.4	1203.8	986.4	976.7	1063.4	1196.7	1060.9
50°	1512.1	1479.0	1447.6	1499.2	1542.3	1268.1	1050.3	1051.6	1162.2	1301.3	1136.7
52.5°	1424.5	1417.4	1467.1	1548.2	1610.3	1319.0	1123.0	1129.2	1288.6	1421.4	1220.0
55°	1393.8	1385.7	1443.1	1531.2	1619.4	1361.0	1201.9	1213.0	1441.5	1548.1	1301.1
57.5°	1468.6	1450.8	1454.6	1523.1	1597.0	1407.0	1287.8	1310.3	1607.7	1658.8	1353.2
60°	1677.7	1639.6	1567.0	1565.3	1609.1	1476.1	1387.3	1414.7	1780.4	1711.8	1333.0
62.5°	1971.1	1932.9	1797.1	1708.6	1702.2	1590.0	1509.3	1516.6	1880.2	1640.0	1208.9
65°	2288.7	2254.6	2102.8	1977.8	1917.6	1778.8	1651.1	1562.1	1847.6	1442.5	991.6
67.5°	2674.1	2637.5	2507.1	2391.6	2333.8	2083.6	1750.7	1518.4	1640.5	1117.5	712.8
70°	2943.8	2906.3	2855.0	2948.4	3090.2	2523.2	1763.6	1341.3	1225.4	742.8	429.1
72.5°	2592.0	2574.5	2668.4	3061.9	3652.5	2789.8	1594.1	976.7	711.8	394.3	248.2
73°	2374.9	2371.0	2531.0	2982.3	3656.6	2748.8	1519.8	907.7	610.3	348.9	227.0
75°	1072.4	1103.3	1454.0	2277.9	3176.8	2265.1	1069.6	520.7	344.8	241.0	171.3
77.5°	257.7	268.4	454.9	1081.7	2006.2	1349.8	484.7	257.6	220.4	170.2	125.1
80°	109.8	113.4	175.2	399.7	944.5	543.6	223.3	172.5	152.5	118.8	87.7
82.5°	60.9	64.9	99.4	181.4	381.2	185.3	136.2	120.0	100.3	71.6	57.1
85°	34.5	36.6	58.1	101.3	161.6	74.4	81.5	79.9	56.6	36.8	28.0
87.5°	16.3	17.7	28.0	47.0	63.4	29.2	41.4	45.7	35.5	22.4	14.5
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: P193249

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1
2.5°	602.7	606.2	610.2	612.3	614.1	616.4	618.9	618.9	619.2	619.4
5°	598.4	605.6	611.9	614.6	615.1	615.1	614.6	611.6	608.8	610.0
7.5°	589.7	600.0	605.4	604.4	597.1	588.7	581.6	572.9	568.4	567.7
10°	577.0	588.9	589.8	580.2	562.1	544.1	529.2	514.6	507.7	506.0
12.5°	563.0	573.9	567.7	548.1	519.0	492.8	473.7	459.0	452.5	450.7
15°	551.6	559.1	543.6	512.5	476.1	448.2	432.4	421.5	417.0	415.6
17.5°	545.6	547.3	518.9	476.8	438.0	414.8	405.1	399.9	398.1	397.1
20°	548.6	537.8	495.3	443.6	407.0	390.7	388.3	387.0	386.7	386.0
22.5°	563.0	535.0	473.5	412.1	379.6	372.6	374.5	374.3	374.0	373.5
25°	588.7	537.4	452.5	382.2	356.8	355.3	358.8	358.8	357.3	357.3
27.5°	622.7	542.6	428.9	353.8	336.2	336.4	339.0	338.2	336.5	335.4
30°	664.1	545.9	401.2	328.4	316.8	316.0	316.8	313.6	308.3	308.0
32.5°	706.5	541.8	369.2	305.7	296.2	294.6	293.9	289.3	283.4	281.7
35°	744.8	527.0	336.5	287.6	276.7	272.8	275.6	274.0	268.7	267.2
37.5°	772.9	499.7	307.2	271.7	262.7	261.6	263.5	264.0	257.7	256.3
40°	791.7	462.3	282.1	258.3	260.0	256.3	250.6	246.6	244.6	244.0
42.5°	806.9	423.7	260.9	252.0	260.6	249.9	237.5	231.0	234.5	236.0
45°	824.3	385.9	243.3	244.0	257.7	242.8	228.6	222.3	223.6	223.9
47.5°	848.3	339.8	224.3	231.4	248.1	237.7	223.0	213.9	207.6	204.8
50°	881.5	285.2	204.6	217.2	238.7	234.1	214.3	204.8	193.1	190.3
52.5°	904.4	234.5	188.3	205.3	230.2	226.8	207.4	194.9	182.7	180.4
55°	892.0	194.7	174.0	192.1	219.2	217.8	201.7	184.9	175.4	173.5
57.5°	829.8	169.6	163.2	179.6	205.5	210.1	193.9	176.6	169.6	168.3
60°	710.7	153.8	156.1	171.1	194.4	202.4	186.3	172.0	167.2	166.4
62.5°	551.4	143.3	151.0	165.0	185.7	197.1	182.1	171.3	169.6	168.5
65°	395.1	134.9	145.5	158.9	177.9	192.1	180.6	170.6	171.0	170.0
67.5°	268.4	127.4	138.8	152.0	170.2	187.7	178.4	167.9	172.7	171.5
70°	187.8	120.0	130.9	143.1	160.6	181.5	174.6	163.9	163.5	158.9
72.5°	146.6	110.6	120.0	130.9	148.3	172.8	166.9	154.8	148.5	143.6
73°	139.9	108.1	117.5	128.2	145.7	170.8	164.9	152.3	145.2	140.8
75°	115.7	98.3	106.6	116.3	134.2	160.8	154.5	141.1	131.9	129.4
77.5°	90.9	84.0	92.1	100.7	118.2	146.2	139.1	126.3	121.3	119.0
80°	67.3	69.6	76.7	84.4	102.4	130.7	124.3	111.5	133.8	128.2
82.5°	47.4	52.8	59.3	66.2	86.0	115.5	107.8	94.6	97.9	81.4
85°	28.0	34.5	40.7	46.7	62.0	95.7	89.0	75.4	61.7	58.9
87.5°	16.3	19.2	20.9	27.1	42.6	72.1	62.8	55.8	32.0	21.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)