

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: P269113

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269113
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 10644.2 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

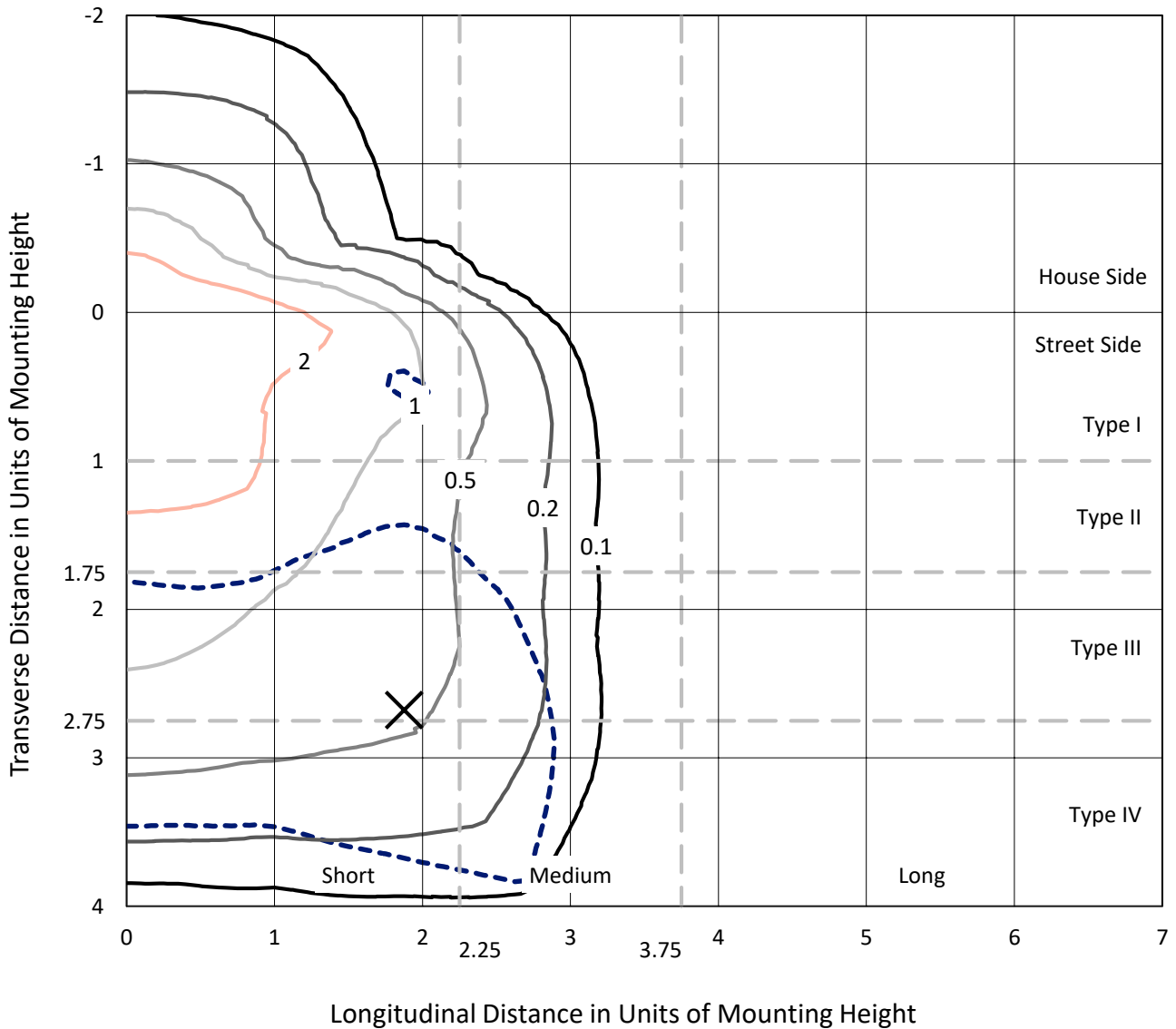
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

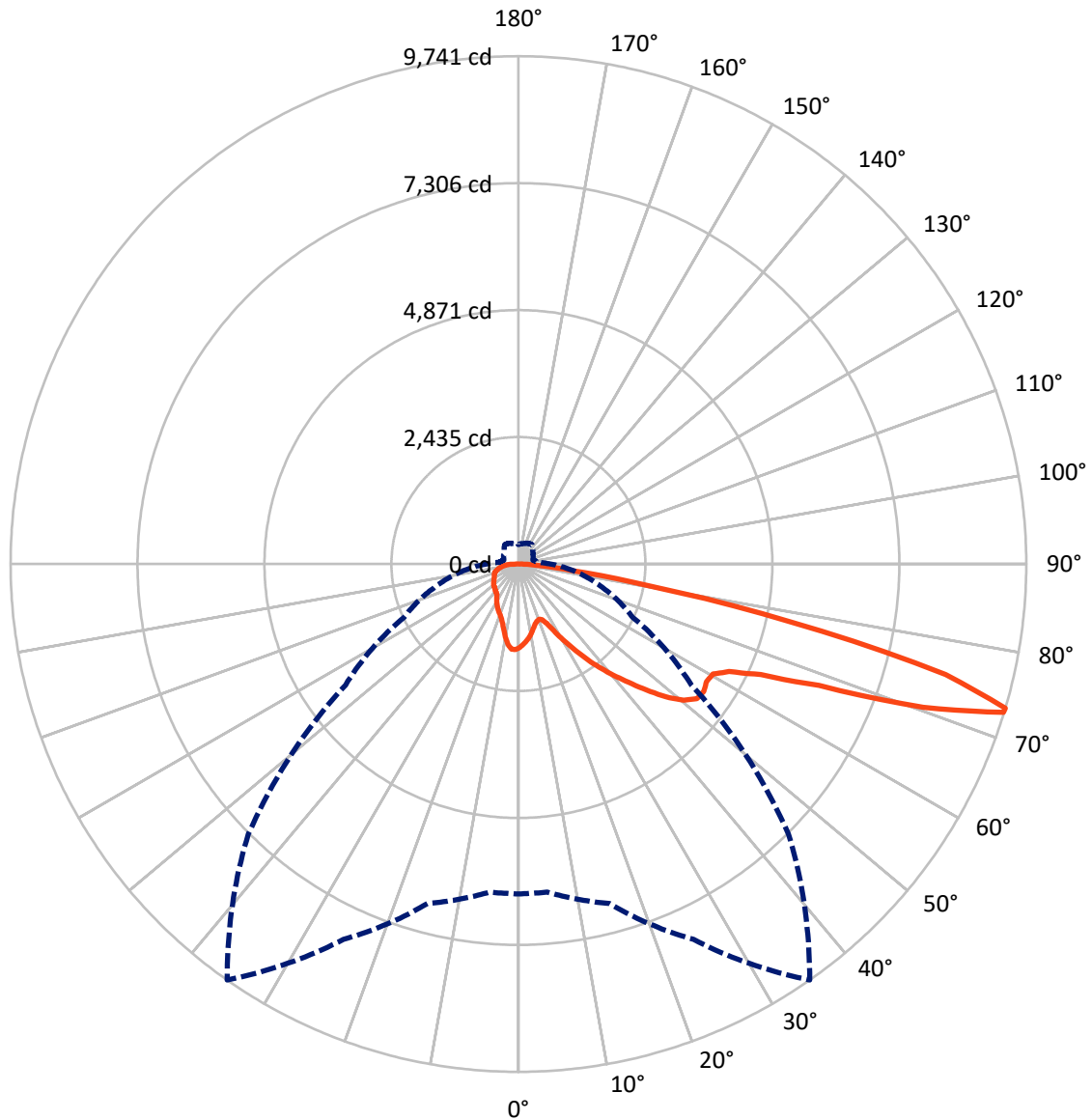
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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	2030.2	0.0	2030.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	8614.0	0.0	8614.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	10644.2	0.0	10644.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	1.4
10°-20°	363.0	3.4
20°-30°	586.8	5.5
30°-40°	984.0	9.2
40°-50°	1516.8	14.3
50°-60°	2035.0	19.1
60°-70°	2711.0	25.5
70°-80°	2067.7	19.4
80°-90°	234.4	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°	10644.2	100.0
0°-180°	10644.2	100.0

Coefficient of Utilization



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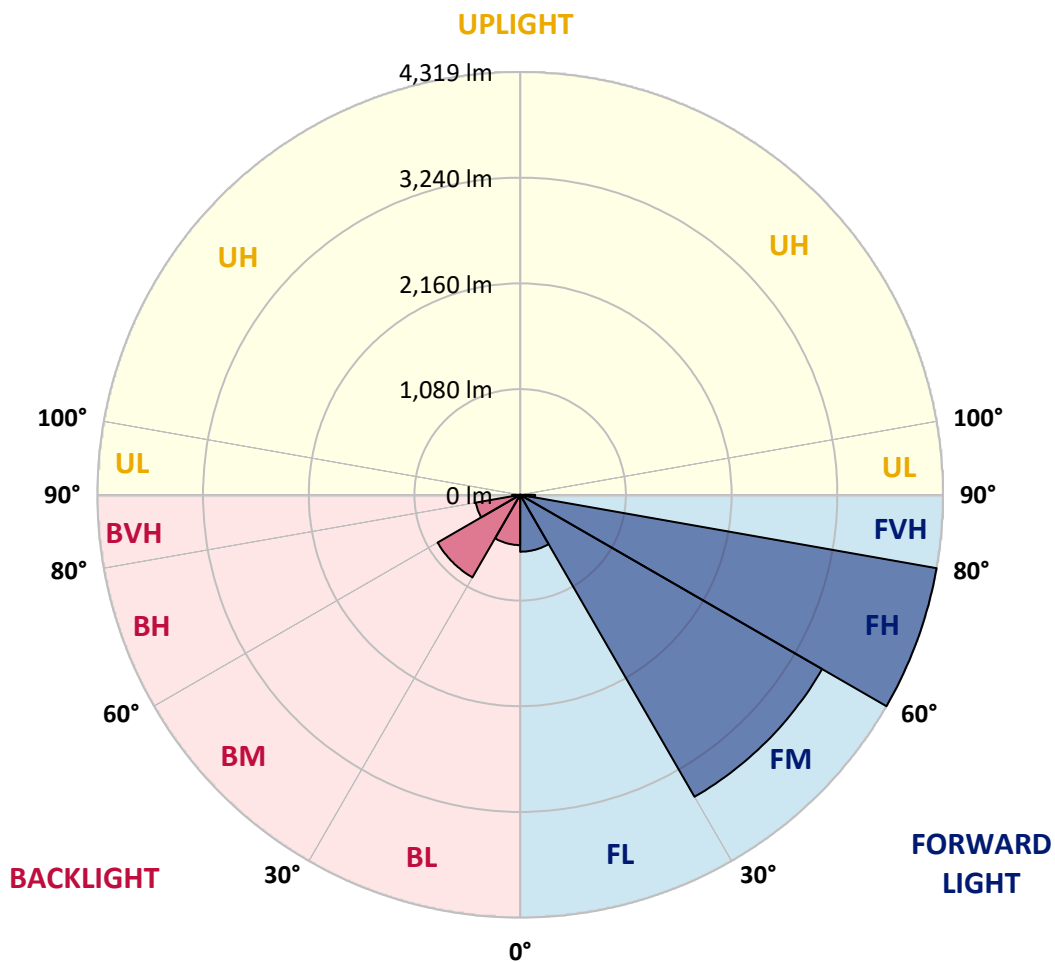
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.5	5.5			
FM	(30°-60°)	3561.6	33.5			
FH	(60°-80°)	4319.4	40.6			G2/5000
FVH	(80°-90°)	151.5	1.4			G2/225
BL	(0°-30°)	513.7	4.8	B2/1000		
BM	(30°-60°)	974.2	9.2	B1/1000		
BH	(60°-80°)	459.3	4.3	B1/500		G1/500
BVH	(80°-90°)	82.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4
2.5°	1543.2	1546.3	1542.6	1547.2	1554.8	1563.1	1568.7	1576.9	1586.0	1598.9	1601.9
5°	1470.5	1475.1	1475.1	1483.3	1498.2	1511.5	1523.7	1537.0	1556.5	1578.4	1587.1
7.5°	1390.8	1393.5	1398.0	1410.2	1431.7	1450.7	1468.0	1489.5	1516.1	1545.3	1560.5
10°	1294.7	1298.3	1305.4	1322.8	1351.9	1378.1	1403.2	1432.7	1466.6	1502.8	1522.2
12.5°	1226.7	1225.7	1228.8	1241.5	1267.1	1298.8	1335.2	1372.9	1414.3	1456.8	1480.2
15°	1203.8	1198.1	1186.4	1183.2	1197.1	1228.8	1270.7	1317.3	1366.9	1418.0	1447.1
17.5°	1218.0	1208.4	1176.2	1152.6	1150.5	1174.7	1219.1	1271.2	1328.5	1390.8	1427.0
20°	1308.0	1285.0	1205.7	1151.1	1132.3	1143.9	1182.8	1238.0	1305.4	1388.3	1434.9
22.5°	1523.3	1489.5	1321.2	1219.5	1155.7	1141.3	1170.5	1229.3	1308.0	1420.0	1479.2
25°	1836.6	1788.4	1519.7	1390.3	1258.4	1182.3	1188.9	1249.3	1344.4	1493.6	1565.1
27.5°	2084.0	2052.7	1778.9	1631.1	1445.6	1292.8	1248.7	1299.4	1418.5	1614.3	1687.2
30°	2231.2	2212.3	2055.9	1904.0	1684.2	1468.5	1363.3	1393.5	1534.5	1781.3	1841.6
32.5°	2401.9	2390.6	2313.9	2174.3	1941.9	1699.6	1544.6	1533.9	1689.8	1982.2	2009.9
35°	2578.8	2575.1	2530.2	2429.9	2218.4	2004.2	1785.4	1712.9	1859.0	2190.7	2173.4
37.5°	2743.3	2737.1	2711.2	2652.9	2507.7	2331.3	2030.8	1896.3	2041.5	2390.1	2313.0
40°	3046.4	2998.5	2908.9	2865.0	2800.0	2606.8	2225.6	2067.5	2230.6	2580.3	2433.6
42.5°	3416.0	3337.8	3171.1	3110.8	3101.7	2824.1	2358.4	2233.7	2421.3	2768.8	2552.2
45°	3706.9	3633.3	3489.6	3413.4	3447.2	3020.9	2491.9	2411.1	2617.7	2966.7	2674.3
47.5°	4017.1	3901.6	3711.4	3734.4	3808.1	3206.9	2627.8	2601.8	2832.7	3188.1	2826.2
50°	4028.4	3940.0	3856.7	3994.1	4108.6	3378.2	2798.0	2801.6	3096.0	3466.6	3028.0
52.5°	3794.8	3775.8	3908.3	4124.5	4289.5	3513.6	2991.7	3008.2	3432.9	3786.5	3249.9
55°	3713.0	3691.6	3844.3	4078.9	4314.1	3625.6	3201.7	3231.5	3840.3	4123.8	3466.1
57.5°	3912.3	3864.8	3875.0	4057.5	4254.3	3748.3	3430.8	3490.6	4282.8	4418.9	3605.1
60°	4469.4	4367.7	4174.6	4169.9	4286.5	3932.2	3695.5	3768.7	4743.0	4559.9	3550.9
62.5°	5251.0	5149.4	4787.3	4551.7	4534.4	4235.9	4020.6	4040.0	5008.7	4368.7	3220.2
65°	6096.9	6006.0	5601.7	5268.9	5108.4	4738.9	4398.5	4161.3	4921.9	3842.8	2641.6
67.5°	7123.9	7026.3	6678.7	6371.5	6217.1	5550.5	4663.7	4045.2	4370.3	2977.0	1898.8
70°	7842.1	7742.3	7605.4	7854.3	8232.0	6721.6	4698.0	3573.5	3264.3	1978.6	1143.0
72.5°	6905.1	6858.6	7108.5	8156.9	9730.3	7432.0	4246.6	2601.8	1895.9	1050.4	661.4
73°	6326.5	6316.3	6742.6	7944.8	9741.0	7322.8	4048.8	2418.2	1625.9	929.2	604.6
75°	2856.8	2939.2	3873.5	6068.3	8463.0	6034.1	2849.7	1387.3	918.5	642.0	456.5
77.5°	686.5	715.1	1212.0	2881.9	5344.6	3595.9	1291.1	685.9	587.3	453.4	333.4
80°	292.4	302.1	466.7	1064.8	2516.4	1448.1	594.9	459.6	406.4	316.5	233.6
82.5°	162.6	172.7	264.8	483.0	1015.7	493.8	362.9	319.9	267.3	190.7	151.9
85°	91.9	97.6	154.9	269.9	430.4	198.3	217.2	212.5	150.7	98.2	74.6
87.5°	43.5	47.0	74.6	125.3	168.7	77.8	110.4	121.6	94.5	59.7	38.8
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°	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4	1606.4
2.5°	1605.5	1614.8	1625.5	1631.1	1636.3	1642.3	1648.5	1648.5	1649.5	1649.9
5°	1594.2	1613.1	1630.1	1637.3	1638.8	1638.8	1637.3	1629.0	1621.9	1624.9
7.5°	1570.7	1598.4	1612.6	1610.1	1590.7	1568.3	1549.2	1526.3	1514.5	1512.4
10°	1537.0	1568.7	1571.2	1545.8	1497.7	1449.7	1409.7	1371.0	1352.5	1347.8
12.5°	1499.7	1528.8	1512.4	1459.8	1382.6	1312.7	1261.9	1222.7	1205.3	1200.7
15°	1469.5	1489.5	1448.1	1365.2	1268.1	1194.0	1152.2	1123.1	1110.8	1107.2
17.5°	1453.6	1457.8	1382.1	1270.3	1167.0	1105.2	1079.0	1065.2	1060.5	1058.1
20°	1461.4	1432.7	1319.3	1181.8	1084.2	1040.6	1034.6	1031.0	1029.9	1028.4
22.5°	1499.7	1425.2	1261.5	1098.0	1011.5	992.6	997.7	997.3	996.2	995.2
25°	1568.3	1431.7	1205.3	1018.1	950.8	946.6	955.8	955.8	951.8	951.8
27.5°	1658.7	1445.6	1142.5	942.5	895.5	896.0	903.2	901.2	896.6	893.5
30°	1769.1	1454.3	1068.9	874.6	843.9	841.8	843.9	835.2	821.4	820.4
32.5°	1882.0	1443.4	983.5	814.3	789.3	784.6	783.1	770.8	754.9	750.4
35°	1984.3	1404.1	896.6	766.3	737.1	726.9	734.0	730.0	715.6	712.0
37.5°	2058.8	1331.0	818.4	723.8	699.8	697.3	701.8	703.4	686.5	682.9
40°	2109.0	1231.8	751.4	688.0	692.7	682.9	667.6	656.8	651.7	650.2
42.5°	2149.4	1128.6	695.2	671.2	694.1	666.1	632.8	615.3	624.6	628.8
45°	2195.8	1027.9	648.1	650.2	686.5	646.6	608.8	592.0	595.4	596.6
47.5°	2259.7	905.2	597.6	616.4	661.0	633.3	594.0	570.0	553.0	545.5
50°	2348.2	760.1	544.9	578.6	635.9	623.7	571.0	545.5	514.2	507.1
52.5°	2409.6	624.6	501.4	546.9	613.4	604.2	552.5	519.3	486.6	480.5
55°	2376.3	518.9	463.6	511.7	583.7	580.1	537.2	492.7	467.2	462.1
57.5°	2210.2	451.8	434.5	478.4	547.4	559.7	516.7	470.3	451.8	448.3
60°	1893.3	409.9	416.1	455.9	517.9	539.3	496.4	458.0	445.6	443.1
62.5°	1469.1	381.8	402.4	439.6	494.7	525.0	485.1	456.5	451.8	448.9
65°	1052.5	359.3	387.4	423.2	473.9	511.7	481.0	454.5	455.4	452.8
67.5°	715.1	339.4	369.6	404.9	453.4	499.8	475.4	447.3	460.0	457.0
70°	500.4	319.9	348.6	381.3	427.9	483.6	465.1	436.5	435.5	423.2
72.5°	390.6	294.5	319.9	348.6	395.2	460.6	444.8	412.5	395.7	382.9
73°	372.6	288.3	312.8	341.4	388.0	454.9	439.1	405.9	386.9	375.2
75°	308.2	261.6	284.3	309.7	357.3	428.3	411.5	375.8	351.6	344.5
77.5°	242.4	223.9	245.3	268.4	314.9	389.4	370.6	336.3	323.0	316.9
80°	179.4	185.5	204.5	224.8	272.9	348.2	331.3	297.0	356.3	341.4
82.5°	126.2	140.6	157.9	176.3	229.0	307.7	287.3	252.1	260.7	216.8
85°	74.6	91.9	108.3	124.2	165.1	255.1	237.2	201.0	164.6	156.9
87.5°	43.5	51.2	55.8	72.0	113.5	192.1	167.2	148.8	85.3	57.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)