

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: P193972

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193972
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-04-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12912 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

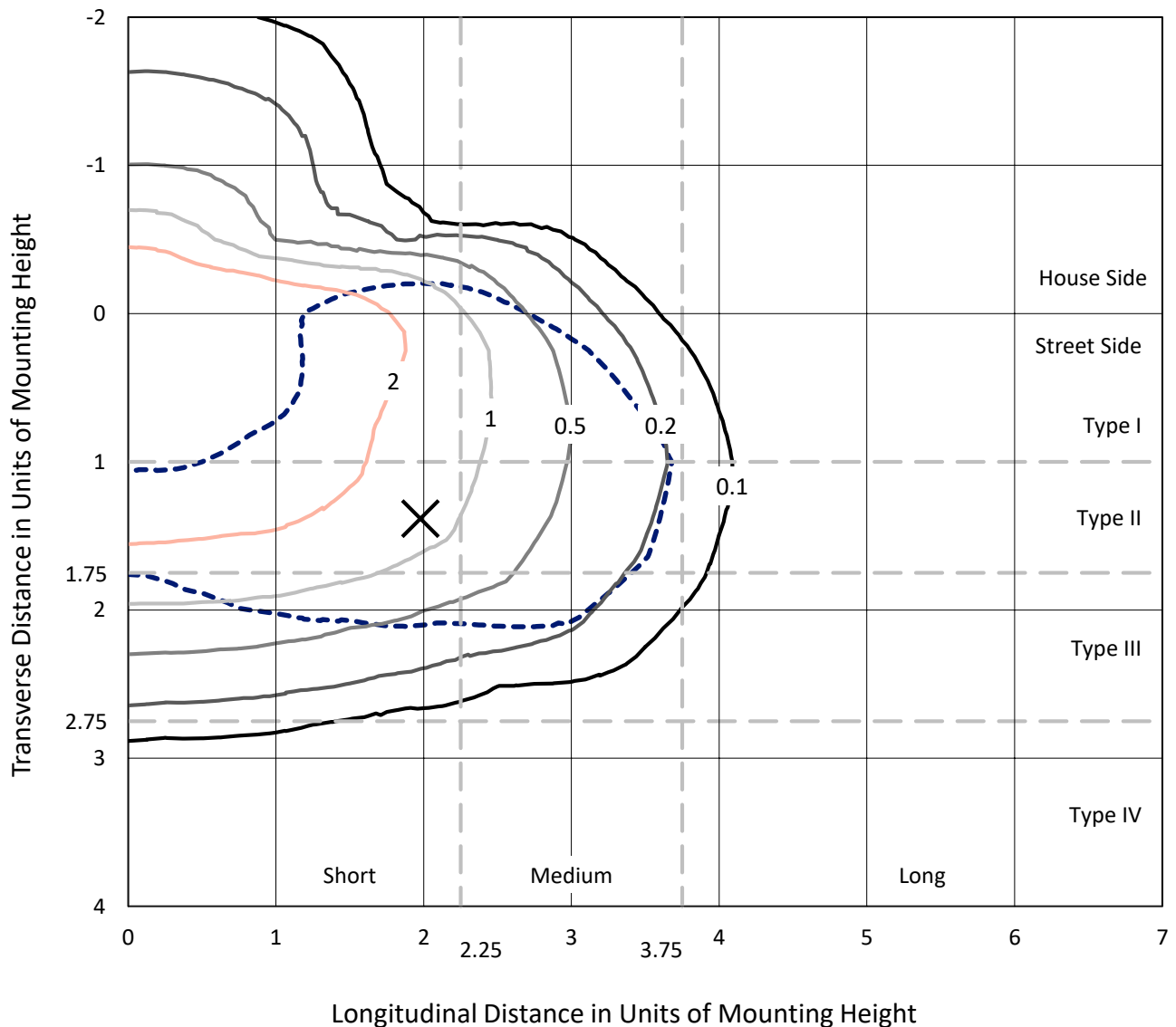
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

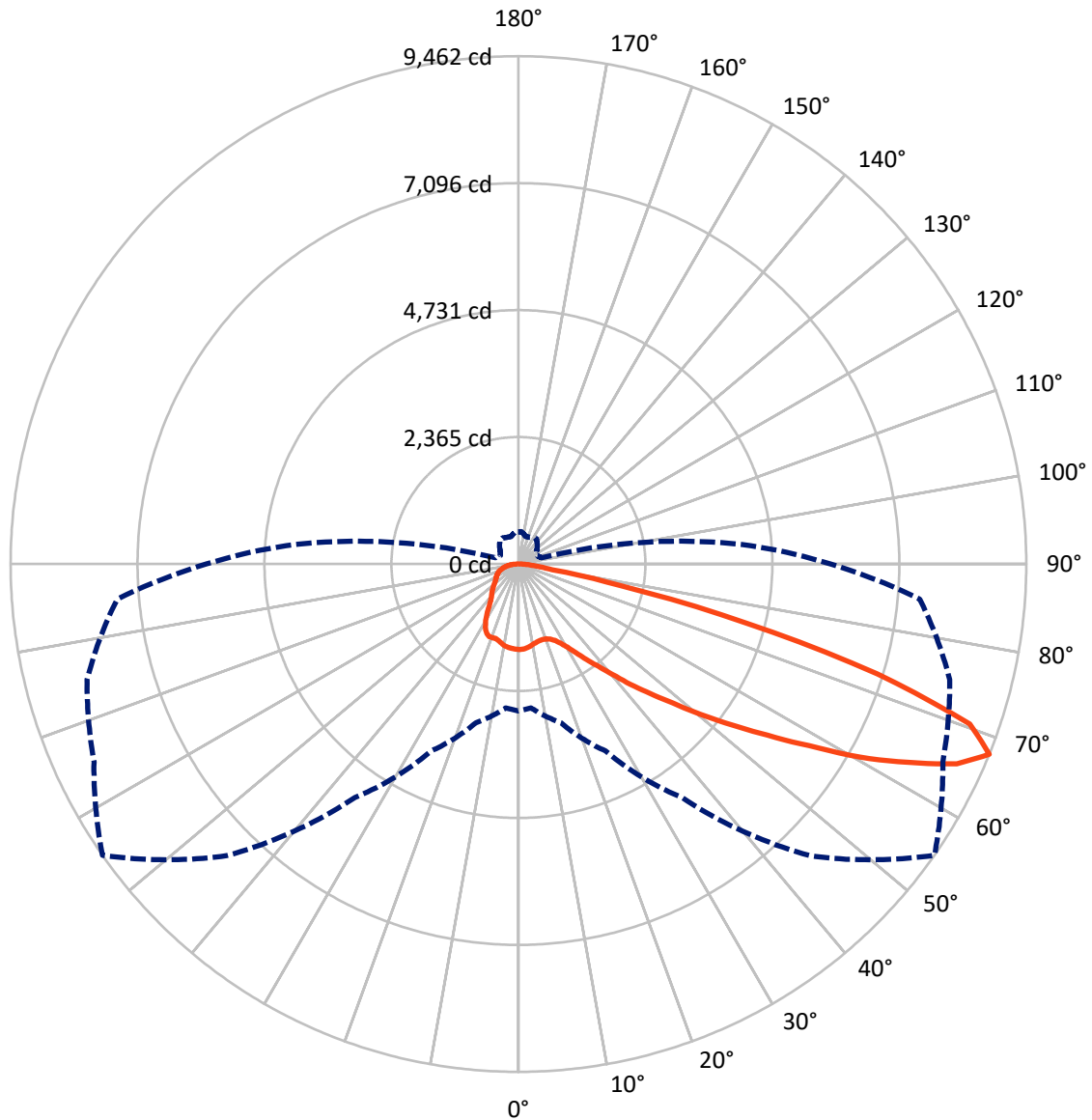


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - Full Cutoff

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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
House Side	Lumens	2789.3	0.0	2789.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10122.7	0.0	10122.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	12912.0	0.0	12912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.2
10°-20°	420.9	3.3
20°-30°	705.1	5.5
30°-40°	1159.4	9.0
40°-50°	1951.7	15.1
50°-60°	3071.8	23.8
60°-70°	3665.8	28.4
70°-80°	1574.2	12.2
80°-90°	214.6	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°	12912.0	100.0
0°-180°	12912.0	100.0



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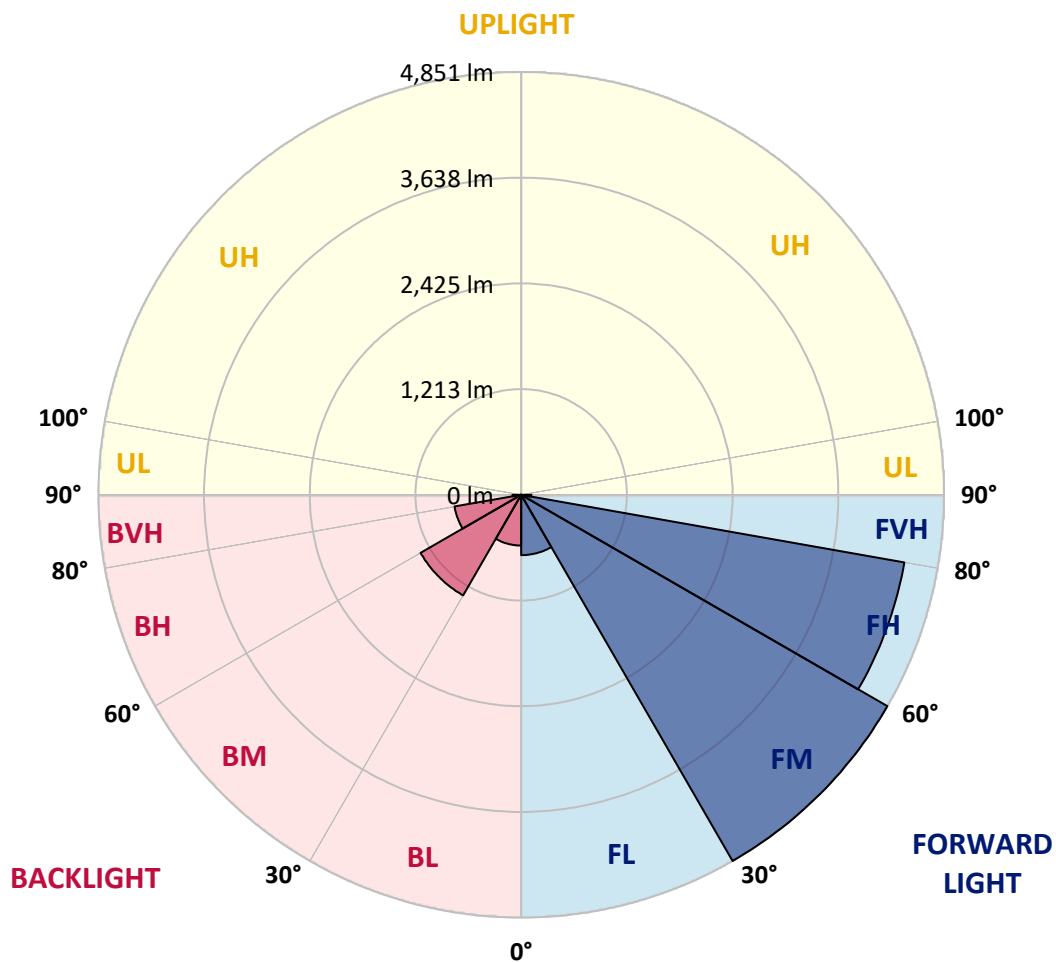
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.1	5.4			
FM (30°-60°)	4850.7	37.6			
FH (60°-80°)	4463.7	34.6			G2/5000
FVH (80°-90°)	116.2	0.9			G2/225
BL (0°-30°)	582.5	4.5	B2/1000		
BM (30°-60°)	1332.1	10.3	B2/2500		
BH (60°-80°)	776.2	6.0	B2/1000		G2/1000
BVH (80°-90°)	98.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1578.5	1579.1	1580.3	1585.3	1589.7	1588.4	1589.1	1586.6	1586.0	1582.2	1586.0
5°	1558.5	1560.4	1561.0	1569.1	1574.1	1575.4	1573.5	1570.4	1566.6	1562.9	1564.7
7.5°	1513.0	1518.0	1518.6	1529.8	1537.9	1548.5	1549.2	1549.8	1547.9	1545.4	1549.2
10°	1484.3	1485.5	1484.9	1493.0	1499.3	1511.1	1518.0	1529.8	1534.8	1536.1	1538.6
12.5°	1482.4	1481.2	1479.3	1479.3	1477.4	1482.4	1494.9	1511.7	1523.6	1527.3	1530.4
15°	1502.4	1501.8	1495.5	1486.2	1474.3	1470.6	1481.2	1499.9	1515.5	1523.6	1526.7
17.5°	1547.3	1543.5	1533.6	1512.4	1486.8	1476.8	1478.1	1493.7	1511.7	1522.3	1525.5
20°	1629.6	1629.6	1608.4	1568.5	1523.0	1499.3	1488.0	1497.4	1514.9	1529.2	1533.6
22.5°	1771.8	1773.1	1737.5	1672.0	1595.3	1544.8	1516.7	1514.9	1535.4	1551.7	1556.6
25°	1973.2	1968.3	1918.4	1824.8	1708.2	1624.6	1576.0	1564.7	1582.2	1600.3	1606.5
27.5°	2207.7	2189.7	2130.4	2017.5	1866.6	1744.4	1669.5	1651.4	1668.3	1688.9	1695.1
30°	2439.7	2421.0	2350.6	2227.1	2059.3	1904.6	1797.4	1768.1	1791.8	1821.1	1824.8
32.5°	2671.7	2671.7	2593.2	2449.1	2266.4	2096.1	1967.6	1932.7	1972.0	2007.5	2015.7
35°	2949.3	2950.5	2874.4	2701.0	2504.6	2324.4	2182.8	2157.2	2216.5	2241.4	2260.7
37.5°	3290.4	3297.3	3199.3	2989.8	2774.6	2585.0	2416.7	2381.7	2441.0	2509.0	2571.3
40°	3659.0	3667.7	3559.8	3301.6	3086.5	2888.1	2706.0	2643.0	2741.6	2871.3	2951.8
42.5°	4010.7	4055.6	3951.5	3685.8	3454.4	3249.2	3064.6	2973.0	3096.4	3292.3	3362.1
45°	4519.0	4551.4	4369.9	4129.2	3911.6	3682.1	3437.6	3340.9	3513.7	3760.6	3775.0
47.5°	4857.6	4833.3	4741.0	4591.3	4453.5	4239.0	3871.0	3765.0	3994.5	4285.1	4204.7
50°	5037.9	5045.4	5032.9	5041.6	5046.6	4911.9	4402.4	4257.1	4530.9	4882.0	4696.7
52.5°	5206.3	5156.4	5197.5	5402.1	5649.1	5599.2	4980.5	4829.0	5105.9	5544.3	5216.9
55°	5202.5	5126.4	5260.5	5621.6	6157.3	6214.7	5629.7	5455.1	5713.9	6254.6	5768.2
57.5°	5018.5	5022.3	5228.7	5701.5	6511.6	6793.5	6383.1	6121.2	6358.8	6974.3	6271.5
60°	4765.3	4799.6	5097.1	5688.4	6795.3	7268.1	7307.4	6839.0	6990.5	7628.5	6688.1
62.5°	4356.9	4393.0	4803.4	5552.4	6752.3	7725.2	8143.1	7653.5	7651.0	8025.2	6810.3
65°	3712.6	3702.0	4133.0	5044.1	6391.2	8063.2	8973.1	8357.6	8148.7	8031.4	6564.6
67.5°	2737.8	2690.4	3060.3	3841.7	5312.3	7684.7	9461.5	8724.3	8318.3	7503.2	5813.7
70°	1420.7	1373.3	1672.6	2243.3	3493.7	5997.7	8920.8	8534.7	7943.5	6289.6	4554.6
72.5°	607.4	599.3	720.9	984.1	1690.1	3459.4	6994.9	7387.2	6815.9	4686.1	3131.4
75°	408.5	406.0	451.5	536.3	760.2	1403.8	4377.4	5243.7	4986.7	2905.6	1761.2
77.5°	320.6	317.4	344.3	385.4	492.7	553.8	1942.7	2815.2	2605.6	1264.8	770.8
80°	250.7	248.2	265.1	287.5	354.2	349.2	639.2	1120.1	866.9	484.6	374.8
82.5°	197.7	197.7	211.4	212.0	251.3	238.2	333.7	493.3	432.8	282.5	229.5
85°	180.9	180.9	195.2	158.4	164.0	150.3	207.1	292.5	274.4	116.0	99.8
87.5°	91.1	88.6	164.0	140.3	89.2	79.8	101.0	141.6	152.2	64.2	49.9
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°	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1584.7	1584.1	1585.3	1586.0	1590.9	1597.8	1600.9	1605.3	1607.8	1606.5
5°	1566.0	1567.2	1572.2	1576.0	1584.7	1595.9	1602.2	1607.2	1611.5	1609.7
7.5°	1550.4	1553.5	1561.0	1564.1	1569.1	1572.2	1571.6	1573.5	1577.2	1572.9
10°	1541.7	1545.4	1551.0	1546.7	1534.8	1518.0	1502.4	1494.3	1496.8	1493.7
12.5°	1532.9	1537.9	1533.6	1513.0	1479.9	1458.1	1446.3	1447.5	1453.1	1454.4
15°	1528.0	1529.8	1511.1	1472.4	1438.8	1435.7	1441.9	1440.6	1441.3	1441.3
17.5°	1528.0	1523.0	1488.0	1449.4	1435.0	1429.4	1410.1	1385.8	1375.2	1371.4
20°	1536.1	1523.0	1480.6	1455.0	1423.8	1375.8	1324.6	1279.7	1259.8	1254.2
22.5°	1560.4	1537.9	1501.8	1457.5	1368.9	1288.5	1207.4	1153.8	1117.6	1111.4
25°	1609.7	1584.7	1543.5	1424.4	1281.6	1166.9	1074.6	1014.7	978.5	973.5
27.5°	1695.7	1679.5	1566.0	1351.5	1165.6	1042.8	957.3	911.2	884.3	882.5
30°	1825.4	1817.3	1554.8	1243.6	1022.8	922.4	881.2	854.4	834.5	833.8
32.5°	2032.5	1967.0	1518.0	1112.0	892.4	836.9	820.1	803.9	788.3	788.3
35°	2298.8	2088.0	1448.1	971.0	813.2	789.5	768.3	742.8	722.2	720.9
37.5°	2611.9	2162.8	1322.8	857.5	775.8	757.7	726.6	688.5	652.3	646.1
40°	2928.1	2185.3	1146.3	787.7	752.1	725.9	687.9	643.0	608.1	606.2
42.5°	3218.1	2142.3	959.2	739.7	728.4	693.5	653.6	613.7	586.2	585.6
45°	3461.3	2030.6	802.0	694.1	703.5	664.2	628.6	596.2	575.0	570.6
47.5°	3690.2	1872.8	691.6	646.1	678.5	648.0	618.0	587.5	566.9	563.8
50°	3955.8	1702.6	614.3	599.3	656.7	642.4	626.8	595.0	560.7	556.9
52.5°	4277.6	1555.4	553.8	558.2	639.9	649.8	649.2	616.2	556.3	551.3
55°	4636.9	1392.0	508.3	524.5	633.0	663.6	654.8	636.1	560.0	552.6
57.5°	4990.5	1201.2	476.5	498.9	623.0	662.3	628.0	601.2	568.8	558.2
60°	5255.5	944.8	452.1	476.5	601.2	641.7	598.7	563.2	566.9	558.8
62.5°	5273.0	730.3	422.8	457.1	568.1	621.2	579.4	546.3	575.0	567.5
65°	4963.0	551.9	394.8	434.1	532.6	608.1	560.7	537.0	591.8	583.7
67.5°	4178.5	444.0	371.1	410.4	497.1	580.6	543.8	528.2	606.8	592.5
70°	3016.6	378.6	348.0	381.7	465.2	549.4	528.9	512.6	566.3	543.8
72.5°	1857.2	328.0	321.8	343.6	440.9	517.0	506.4	483.3	510.1	492.1
75°	927.4	284.4	292.5	306.2	406.6	480.2	469.0	445.9	449.7	445.9
77.5°	444.0	243.2	258.2	268.8	362.3	438.4	426.6	402.9	398.5	399.1
80°	281.3	203.3	217.7	225.1	323.7	389.8	377.9	354.2	404.1	374.8
82.5°	175.9	165.3	169.0	182.7	281.9	339.3	323.7	302.5	364.2	288.1
85°	97.3	115.4	120.4	132.2	217.0	283.8	268.2	241.4	216.4	212.7
87.5°	58.0	68.6	70.5	79.2	145.9	205.2	181.5	172.1	142.8	142.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)