

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: P458580

Luminaire Tested: **GALN-SA1C-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6568 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

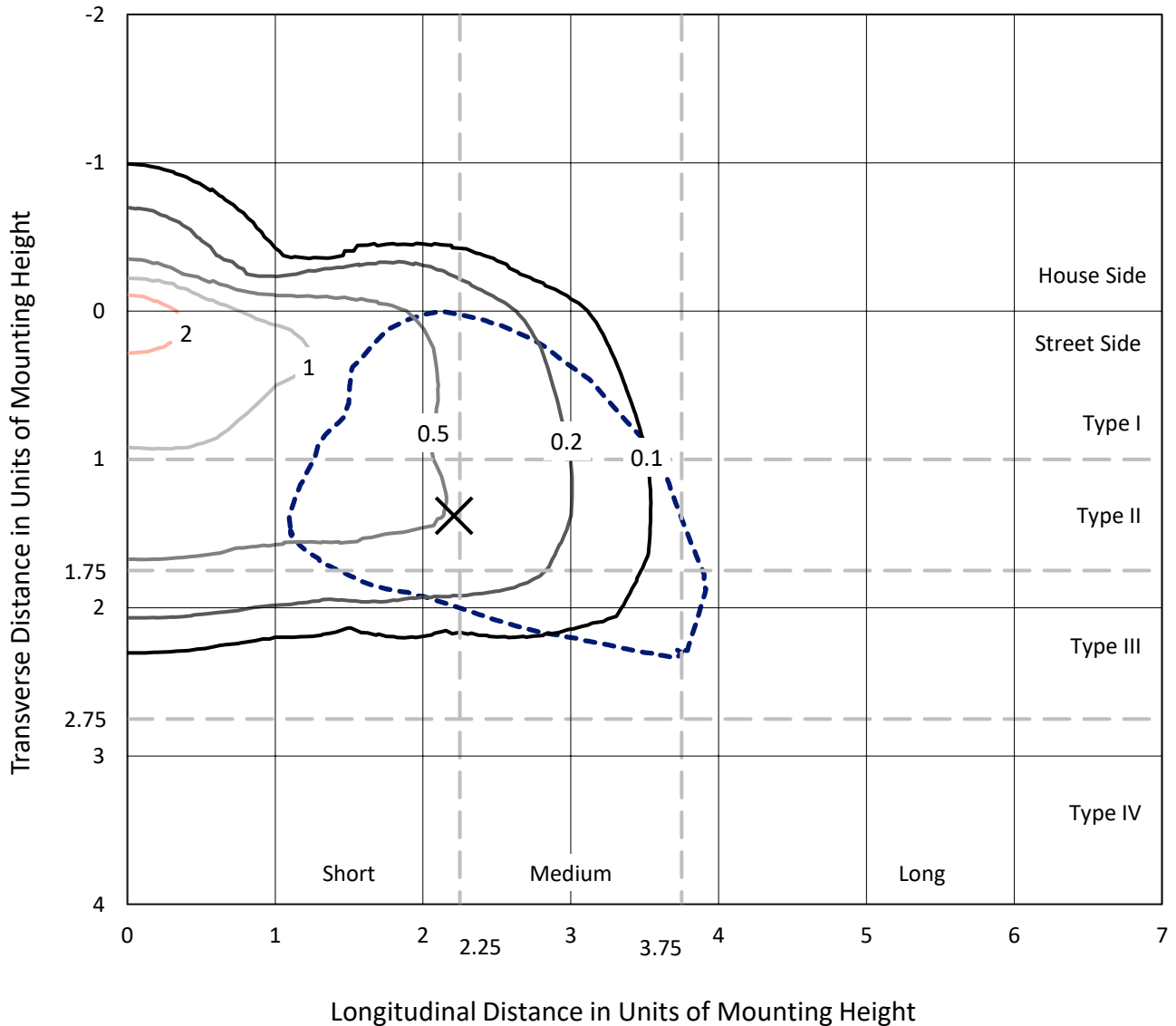
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

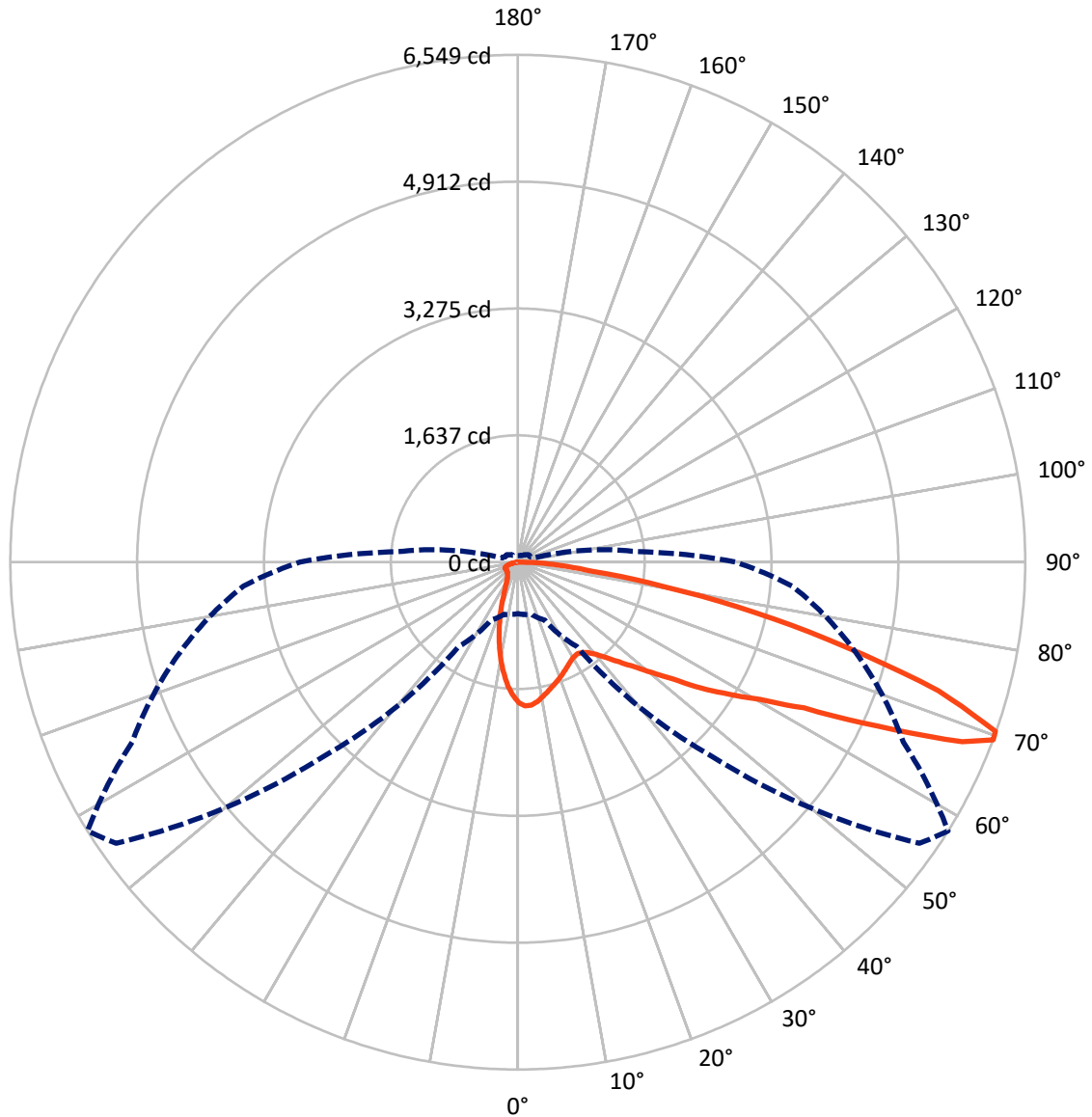
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.5	0.0	962.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5605.5	0.0	5605.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	6568.0	0.0	6568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	2.3
10°-20°	338.5	5.2
20°-30°	437.3	6.7
30°-40°	568.0	8.6
40°-50°	825.7	12.6
50°-60°	1317.6	20.1
60°-70°	1760.2	26.8
70°-80°	1014.7	15.4
80°-90°	152.0	2.3
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°	6568.0	100.0
0°-180°	6568.0	100.0

Coefficient of Utilization



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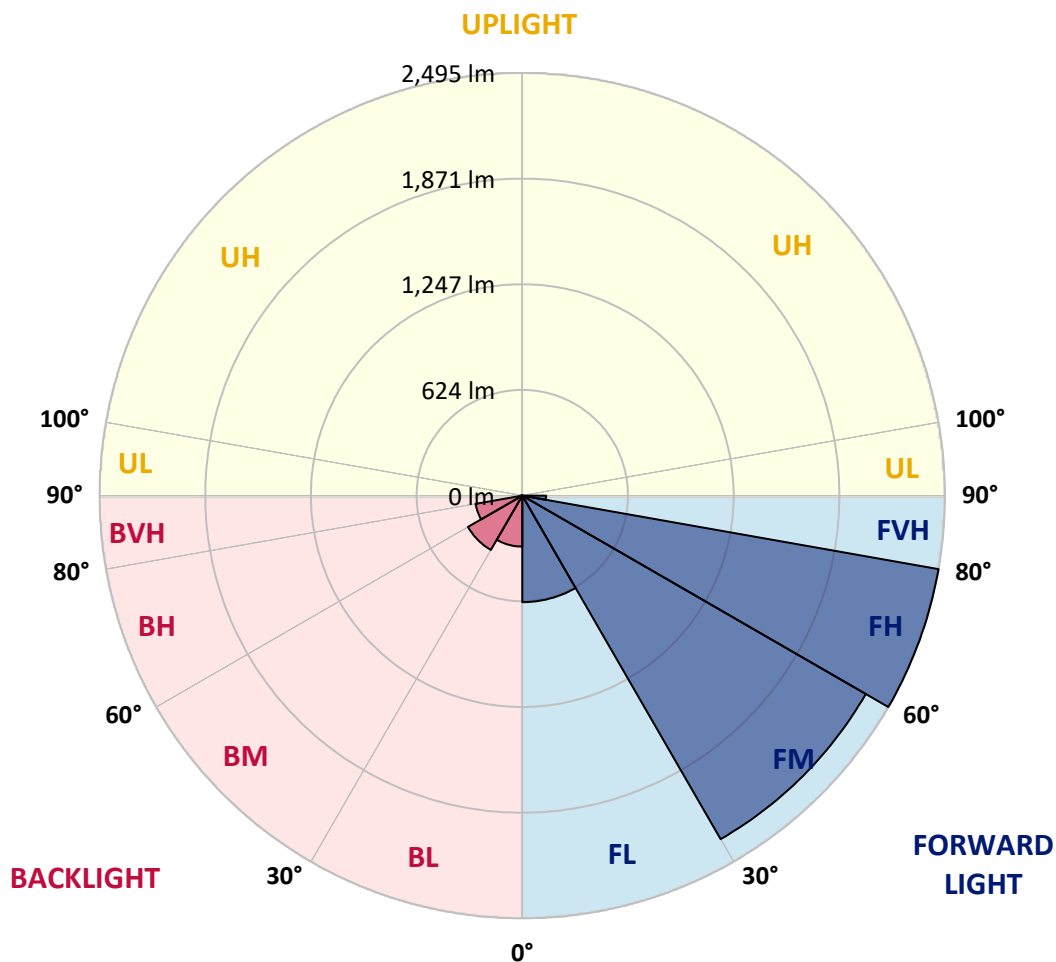
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.0	9.6			
FM	(30°-60°)	2341.1	35.6			
FH	(60°-80°)	2494.9	38.0			G2/5000
FVH	(80°-90°)	140.3	2.1			G2/225
BL	(0°-30°)	300.9	4.6	B1/500		
BM	(30°-60°)	370.2	5.6	B1/1000		
BH	(60°-80°)	279.9	4.3	B1/500		G1/500
BVH	(80°-90°)	11.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0
2.5°	1882.4	1887.5	1886.1	1884.2	1881.3	1873.3	1860.1	1857.9	1849.4	1831.5	1809.1
5°	1853.5	1857.9	1858.2	1860.8	1864.5	1863.0	1853.5	1852.4	1839.9	1815.7	1778.4
7.5°	1754.2	1760.1	1772.9	1787.2	1800.0	1812.1	1815.0	1816.8	1809.1	1781.3	1731.5
10°	1642.5	1648.3	1654.2	1675.5	1707.0	1737.0	1761.9	1765.2	1767.0	1741.4	1680.6
12.5°	1518.7	1530.8	1543.2	1574.7	1616.8	1664.1	1708.1	1715.0	1727.5	1708.1	1636.6
15°	1413.5	1426.0	1443.9	1472.2	1523.1	1591.2	1653.1	1664.5	1689.0	1679.1	1595.6
17.5°	1340.7	1345.0	1357.5	1389.7	1444.7	1516.5	1599.3	1622.0	1661.2	1658.6	1560.4
20°	1283.1	1288.6	1296.3	1316.1	1373.3	1449.1	1549.1	1578.4	1631.5	1640.3	1525.6
22.5°	1259.0	1263.0	1261.9	1272.5	1311.3	1387.5	1498.2	1533.0	1605.1	1627.8	1493.4
25°	1260.4	1264.1	1258.6	1256.0	1279.1	1333.3	1445.0	1489.4	1583.9	1619.4	1464.1
27.5°	1285.0	1287.5	1277.3	1267.0	1268.9	1299.6	1401.1	1450.2	1565.9	1623.1	1439.6
30°	1317.9	1322.7	1316.1	1303.7	1290.1	1291.6	1372.9	1421.2	1557.5	1635.9	1427.8
32.5°	1360.4	1364.8	1361.9	1352.0	1334.4	1315.0	1365.9	1410.6	1558.2	1661.9	1425.3
35°	1405.1	1413.9	1418.7	1417.9	1403.7	1370.0	1393.4	1430.4	1575.8	1705.5	1440.3
37.5°	1455.7	1463.0	1483.5	1496.7	1483.5	1444.3	1455.3	1480.9	1614.6	1768.5	1473.3
40°	1504.8	1515.7	1545.8	1586.8	1581.7	1547.2	1549.8	1566.7	1683.1	1862.3	1537.7
42.5°	1556.0	1569.2	1621.6	1682.4	1694.5	1667.8	1674.7	1689.7	1780.6	1992.3	1648.3
45°	1622.0	1637.7	1702.2	1778.0	1825.6	1809.1	1828.9	1836.3	1911.0	2161.5	1794.1
47.5°	1707.0	1725.3	1804.8	1899.3	1966.7	1981.7	2016.1	2011.7	2072.5	2361.9	1983.1
50°	1850.2	1860.4	1935.5	2031.9	2124.5	2192.3	2229.7	2236.6	2272.9	2556.8	2194.5
52.5°	2020.5	2029.7	2083.9	2168.1	2284.2	2427.8	2520.1	2497.4	2506.2	2794.1	2441.7
55°	2212.1	2227.5	2261.9	2317.9	2468.5	2679.8	2865.2	2870.7	2773.2	3021.2	2678.7
57.5°	2360.4	2386.4	2445.4	2525.3	2716.1	2960.1	3209.1	3212.8	3088.3	3263.7	2940.3
60°	2285.7	2316.5	2451.3	2645.8	3041.0	3449.1	3620.1	3599.3	3394.9	3539.9	3259.3
62.5°	1963.4	1968.9	2164.8	2468.9	3141.0	4103.3	4231.9	4143.6	3804.0	3890.1	3583.5
65°	1270.7	1306.6	1461.9	1887.9	2812.4	4466.3	5303.6	5099.6	4377.6	4287.5	3854.9
67.5°	802.2	793.0	857.5	1078.0	1934.4	4146.5	6218.3	6186.1	5127.8	4538.4	3790.1
69°	665.2	675.5	697.4	826.4	1331.1	3540.3	6326.3	6549.1	5491.6	4518.7	3554.6
70°	603.3	608.1	631.1	732.6	1027.1	2965.2	6149.1	6539.2	5634.4	4435.9	3383.9
72.5°	478.8	478.4	517.9	609.5	767.8	1692.7	5049.1	5677.3	5474.7	4050.5	2796.0
75°	363.7	369.6	413.2	515.7	707.3	924.9	3523.4	4372.1	4372.5	3199.3	1744.7
77.5°	262.3	265.9	316.8	433.0	666.3	749.8	2346.9	3135.9	2948.0	1465.9	548.3
80°	171.8	174.0	212.8	342.9	600.7	707.3	1391.6	1919.4	1390.5	389.0	181.3
82.5°	94.1	105.1	130.0	222.0	482.0	653.5	845.8	971.4	521.6	173.3	94.5
85°	47.3	50.2	73.3	129.7	315.0	540.7	589.0	557.1	269.2	86.1	49.1
87.5°	13.9	17.6	30.4	50.2	127.8	281.7	327.8	294.1	103.7	31.1	10.3
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°	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0	1815.0
2.5°	1800.0	1793.4	1764.1	1737.7	1713.5	1687.9	1666.3	1647.2	1649.1	1649.4	1630.0
5°	1759.0	1743.9	1688.3	1636.3	1592.3	1536.6	1489.0	1458.2	1442.9	1422.3	1429.7
7.5°	1703.3	1674.4	1597.1	1510.6	1429.7	1357.5	1279.1	1225.3	1190.8	1157.5	1161.9
10°	1645.8	1599.3	1486.8	1372.5	1267.8	1152.4	1052.4	966.7	902.9	879.1	863.4
12.5°	1586.8	1525.6	1382.8	1230.8	1086.1	948.0	806.2	714.3	644.0	606.6	611.4
15°	1533.0	1458.6	1274.4	1089.0	901.1	736.6	595.2	507.7	458.6	448.3	454.2
17.5°	1483.1	1385.7	1172.9	951.3	731.9	552.4	447.3	397.8	378.0	372.5	372.2
20°	1431.9	1323.8	1059.0	804.0	570.3	428.2	367.0	344.0	340.3	342.5	342.9
22.5°	1379.8	1247.2	941.8	657.9	454.2	350.2	320.9	314.7	317.6	322.7	323.4
25°	1331.9	1179.8	828.9	529.7	362.6	307.7	293.4	293.4	300.0	307.7	308.1
27.5°	1292.3	1114.6	716.5	420.5	303.7	276.9	272.2	274.7	283.9	289.7	290.1
30°	1259.7	1053.8	610.3	337.0	267.0	252.4	251.3	255.7	262.3	267.8	268.1
32.5°	1235.2	1000.4	511.0	283.1	241.8	233.7	233.3	236.6	240.3	241.8	243.2
35°	1225.6	956.0	420.1	249.1	224.9	219.8	219.8	219.4	220.9	221.6	222.3
37.5°	1233.3	922.0	349.8	227.1	212.5	208.8	206.6	204.4	203.7	203.7	204.0
40°	1265.9	904.0	297.4	212.8	203.7	198.2	194.1	191.6	189.0	189.7	190.5
42.5°	1335.2	907.3	261.9	203.3	196.0	188.3	182.4	179.5	177.7	179.9	179.5
45°	1445.4	940.3	239.2	196.7	188.3	178.4	172.9	170.0	170.0	173.3	174.4
47.5°	1599.6	1003.3	227.1	191.6	182.4	170.7	165.2	163.0	163.7	169.2	169.6
50°	1787.9	1112.8	224.9	189.0	179.5	165.2	159.0	156.8	158.6	164.5	165.2
52.5°	1995.6	1253.8	235.5	189.4	176.9	161.9	153.8	150.5	152.4	157.1	158.6
55°	2241.7	1430.4	263.0	190.8	173.3	160.1	150.2	142.9	145.1	148.4	148.7
57.5°	2493.0	1653.1	311.4	191.2	170.3	156.8	144.0	134.4	134.4	136.6	137.7
60°	2800.0	1895.6	375.1	191.6	170.7	152.0	135.5	124.9	123.4	124.5	124.9
62.5°	3104.7	2098.5	385.7	190.5	174.4	147.3	126.4	115.4	112.8	112.5	111.7
65°	3239.2	2060.8	316.1	185.3	178.4	144.3	119.0	106.2	101.8	100.4	100.4
67.5°	3020.1	1743.2	237.7	178.4	175.8	141.4	112.1	98.5	93.4	90.5	90.5
69°	2814.3	1550.5	213.6	173.6	169.2	136.6	107.7	94.5	88.3	85.0	83.9
70°	2655.3	1417.9	203.3	169.6	163.0	131.1	104.4	91.6	84.6	81.0	80.2
72.5°	2119.0	1112.4	178.0	154.2	138.8	110.3	92.7	82.4	75.8	71.8	70.7
75°	1221.2	602.9	147.6	134.1	111.7	85.7	78.4	71.8	66.7	63.0	61.9
77.5°	375.8	233.0	107.0	105.9	82.1	66.3	62.6	60.1	56.4	52.4	51.6
80°	158.2	118.7	72.5	71.4	54.6	46.2	45.1	44.7	43.2	39.9	38.8
82.5°	86.8	67.0	50.5	44.0	33.0	26.7	27.8	28.2	27.1	23.8	21.6
85°	42.5	36.6	24.5	19.8	15.0	9.5	9.2	11.0	10.3	7.3	8.1
87.5°	8.4	10.3	6.6	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
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)