

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: P458636

Luminaire Tested: **GALN-SA2A-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8551 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

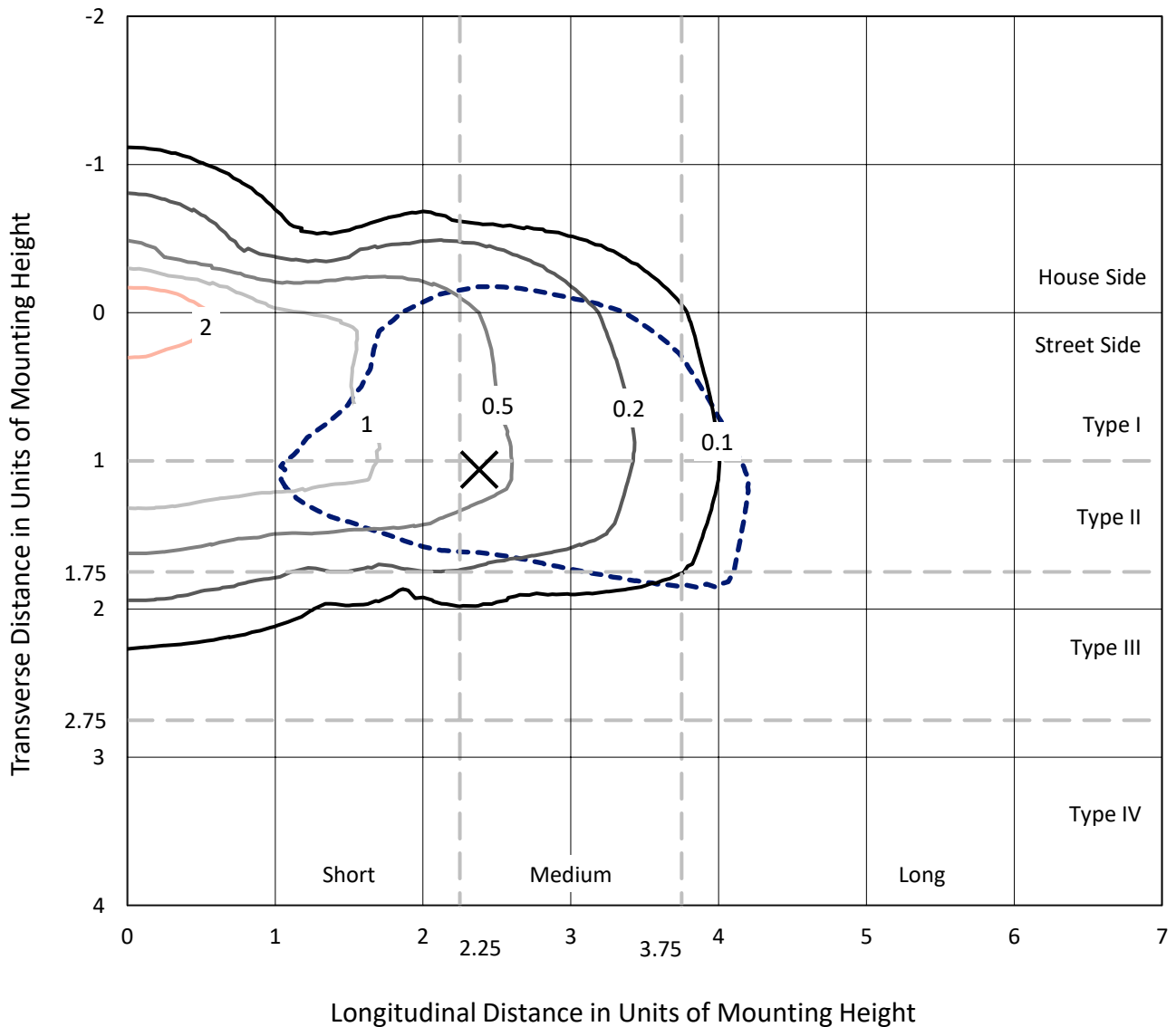
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

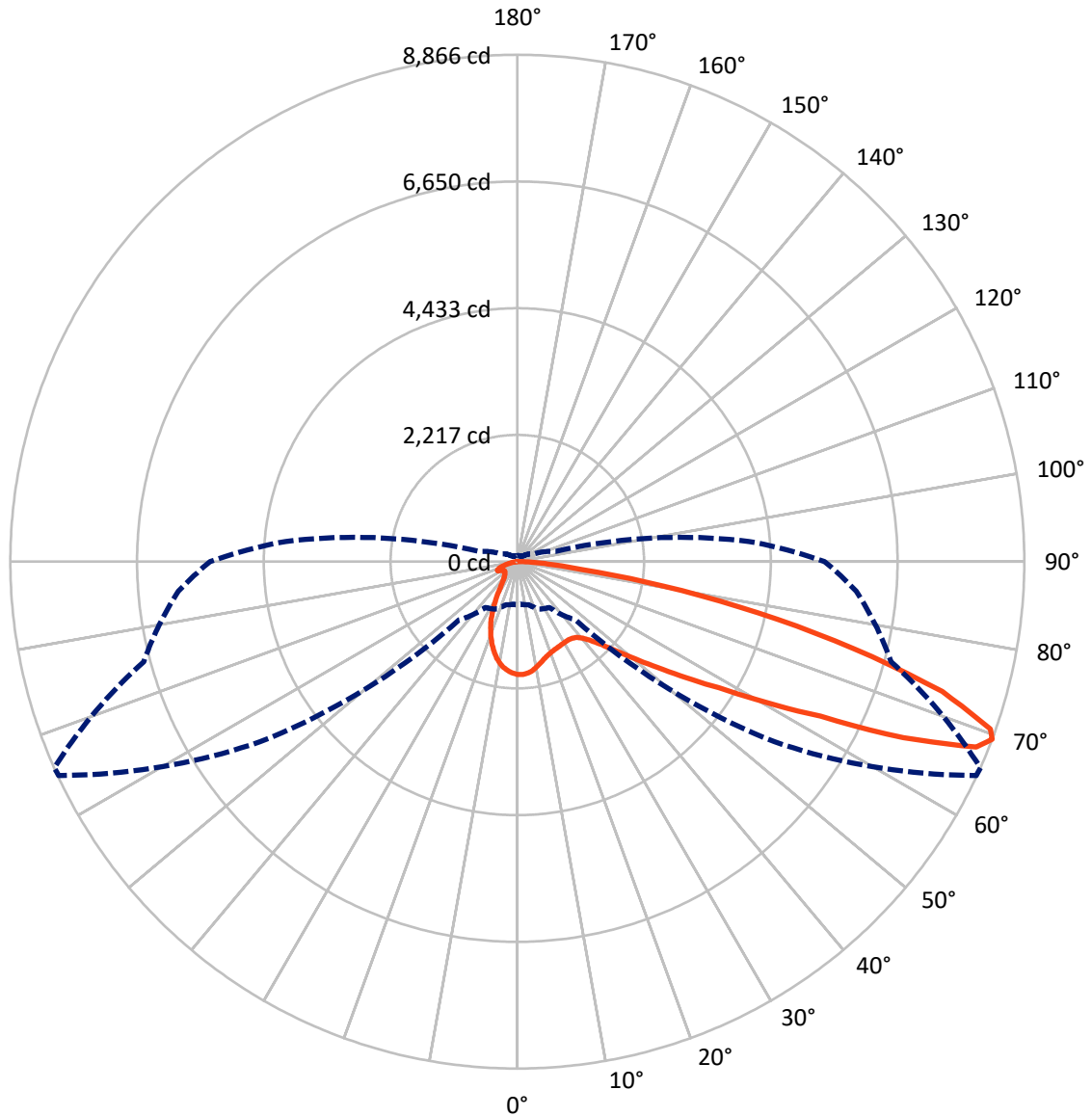
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1608.1	0.0	1608.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6942.9	0.0	6942.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	8551.0	0.0	8551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	2.0
10°-20°	406.7	4.8
20°-30°	553.7	6.5
30°-40°	744.1	8.7
40°-50°	1111.0	13.0
50°-60°	1767.3	20.7
60°-70°	2173.6	25.4
70°-80°	1414.3	16.5
80°-90°	208.8	2.4
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°	8551.0	100.0
0°-180°	8551.0	100.0

Coefficient of Utilization



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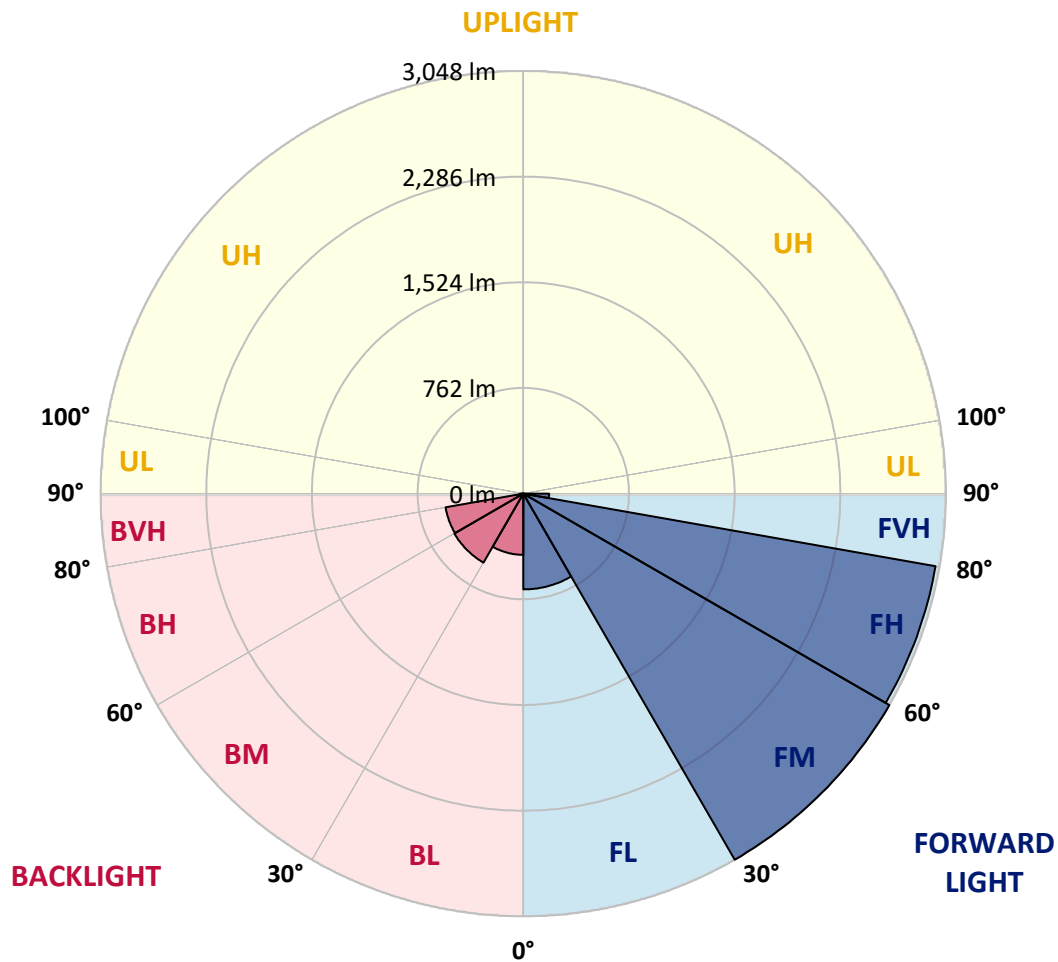
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	690.5	8.1			
FM	(30°-60°)	3048.2	35.6			
FH	(60°-80°)	3018.6	35.3			G2/5000
FVH	(80°-90°)	185.7	2.2			G2/225
BL	(0°-30°)	441.4	5.2	B1/500		
BM	(30°-60°)	574.2	6.7	B1/1000		
BH	(60°-80°)	569.3	6.7	B2/1000		G2/1000
BVH	(80°-90°)	23.2	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7
2.5°	1905.5	1913.1	1921.6	1931.1	1949.1	1959.0	1966.1	1974.2	1975.1	1979.4	1976.1
5°	1764.9	1773.9	1786.7	1804.7	1831.7	1873.8	1917.4	1952.9	1957.1	1977.0	1982.7
7.5°	1647.4	1652.7	1663.1	1692.0	1730.3	1777.2	1840.7	1912.6	1923.0	1970.4	1987.0
10°	1551.8	1557.0	1569.3	1599.1	1637.0	1695.7	1765.4	1860.1	1868.6	1950.0	1987.9
12.5°	1480.3	1485.0	1498.3	1527.6	1571.2	1626.1	1702.9	1803.2	1815.6	1923.0	1978.9
15°	1425.8	1434.8	1445.7	1469.9	1515.8	1568.8	1643.2	1751.2	1761.1	1894.6	1972.8
17.5°	1402.6	1406.9	1414.5	1436.7	1470.3	1522.4	1597.3	1710.4	1722.3	1874.7	1971.3
20°	1403.6	1407.8	1409.3	1421.6	1445.7	1490.7	1564.6	1678.2	1692.4	1857.2	1973.7
22.5°	1435.8	1436.2	1431.0	1426.8	1436.2	1473.7	1541.4	1654.1	1670.7	1849.6	1975.6
25°	1485.5	1494.0	1486.4	1466.6	1449.0	1467.0	1532.4	1640.8	1656.4	1838.8	1973.2
27.5°	1566.0	1567.4	1561.3	1534.3	1488.8	1475.6	1528.6	1630.9	1644.1	1830.7	1961.4
30°	1674.0	1669.7	1664.0	1634.2	1562.7	1508.2	1536.6	1621.9	1635.6	1818.9	1947.2
32.5°	1783.4	1796.6	1791.4	1756.4	1663.5	1571.7	1562.7	1620.9	1632.3	1809.9	1931.6
35°	1899.4	1905.5	1930.2	1912.2	1817.0	1674.4	1611.5	1635.6	1644.6	1810.3	1920.7
37.5°	1990.3	2006.9	2064.6	2080.3	1990.8	1810.3	1690.5	1677.3	1681.1	1833.5	1924.9
40°	2100.2	2128.6	2202.9	2266.8	2208.1	1987.0	1825.0	1754.5	1759.2	1889.4	1952.9
42.5°	2239.4	2259.3	2359.2	2445.8	2436.4	2220.4	1987.9	1880.9	1883.3	2000.7	2031.0
45°	2402.3	2430.7	2542.9	2673.1	2695.4	2484.7	2223.3	2072.2	2070.8	2173.6	2176.9
47.5°	2610.6	2628.1	2739.4	2881.5	2971.5	2816.6	2508.8	2346.9	2331.7	2425.5	2398.5
50°	2802.4	2829.9	2914.2	3069.5	3293.5	3205.4	2884.3	2703.0	2667.5	2755.1	2709.6
52.5°	2882.9	2911.8	2982.8	3175.6	3569.5	3708.3	3361.2	3127.7	3068.5	3135.8	3119.2
55°	2743.2	2780.6	2846.9	3081.3	3690.8	4288.4	4004.3	3618.8	3575.7	3546.8	3551.6
57.5°	2367.7	2403.2	2492.7	2751.3	3545.9	4709.4	4922.5	4250.0	4157.7	4024.6	4047.3
60°	1802.3	1824.6	1871.0	2157.5	3116.4	4818.7	5965.2	5047.9	4989.2	4500.5	4516.6
62.5°	1280.0	1305.1	1337.3	1480.3	2281.5	4510.5	6781.6	6162.2	5952.4	4993.5	4977.9
65°	1039.4	1022.4	1061.2	1128.0	1338.7	3495.7	6965.3	7708.8	7419.9	5642.7	5425.8
67.5°	854.7	836.7	875.1	994.0	1018.1	2029.1	6303.3	8712.7	8654.9	6348.8	5880.9
69°	756.7	747.2	780.9	916.3	977.4	1441.0	5491.2	8852.4	8866.1	6765.0	5951.0
70°	681.9	685.7	718.4	877.0	958.9	1188.1	4693.3	8659.6	8776.1	6972.9	5875.2
72.5°	502.0	510.0	555.5	726.4	941.4	1008.2	2792.9	7563.9	7769.9	6985.2	5374.7
75°	350.9	347.1	387.4	546.9	889.3	999.2	1640.3	5849.6	6083.1	6037.6	4516.2
77.5°	229.7	235.8	268.0	386.4	748.2	991.6	1069.3	4150.1	4301.6	4037.9	2671.2
80°	162.0	161.5	179.5	263.8	555.0	952.8	875.6	2615.8	2577.5	1586.8	792.2
82.5°	92.8	99.4	120.3	185.6	371.3	838.6	805.5	1251.1	1142.2	452.2	267.6
85°	51.6	54.0	71.5	112.2	216.9	631.7	703.2	569.2	537.0	188.9	115.1
87.5°	16.6	18.0	29.8	56.8	98.5	298.3	398.2	262.8	242.5	68.2	46.4
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°	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7
2.5°	1977.5	1983.2	1968.0	1953.4	1940.1	1921.6	1905.1	1891.3	1881.8	1880.4	1875.7
5°	1984.1	1984.6	1955.7	1916.9	1879.0	1837.3	1794.2	1763.5	1734.6	1718.5	1710.4
7.5°	1988.9	1984.6	1932.5	1869.5	1796.6	1720.8	1645.1	1584.5	1537.6	1519.1	1526.2
10°	1987.0	1973.7	1897.5	1796.6	1690.5	1577.4	1468.4	1383.2	1305.1	1264.8	1265.8
12.5°	1976.6	1954.8	1845.4	1714.7	1558.9	1407.4	1240.7	1125.6	1035.2	981.6	965.1
15°	1967.6	1929.7	1784.3	1603.4	1409.7	1193.3	990.2	848.1	772.3	730.2	729.7
17.5°	1958.1	1905.5	1717.5	1485.5	1238.3	959.9	746.8	638.3	602.8	607.1	600.0
20°	1948.1	1877.1	1647.9	1354.3	1029.5	716.0	559.3	515.2	525.2	544.6	547.4
22.5°	1936.8	1846.8	1573.1	1209.9	809.8	538.9	453.7	447.0	472.6	502.9	507.2
25°	1919.3	1808.9	1478.9	1058.8	624.6	434.2	397.3	402.0	427.1	452.7	455.5
27.5°	1894.6	1762.0	1383.7	870.4	469.3	372.7	363.2	369.4	381.7	397.3	401.1
30°	1861.5	1709.0	1274.3	707.5	376.0	341.9	338.1	341.4	348.5	355.2	357.0
32.5°	1828.3	1657.9	1164.0	541.7	335.3	321.5	317.7	317.7	317.7	318.7	319.2
35°	1797.6	1609.6	1045.6	421.9	314.0	305.4	300.2	294.5	293.6	290.3	290.3
37.5°	1780.5	1565.5	919.6	353.3	298.3	292.2	285.1	275.6	270.4	270.9	269.9
40°	1783.8	1536.6	805.0	314.4	285.5	278.9	268.0	257.1	253.8	253.8	252.9
42.5°	1821.2	1527.2	695.2	294.1	273.2	265.7	251.9	242.0	240.1	239.6	240.6
45°	1907.4	1550.4	596.7	280.8	262.8	251.4	237.7	228.7	226.8	226.8	226.4
47.5°	2075.5	1625.7	526.1	272.3	255.2	240.6	226.4	217.4	214.0	213.1	213.1
50°	2336.9	1789.0	473.5	264.7	245.8	230.6	215.9	205.5	200.3	199.8	199.4
52.5°	2700.1	2043.8	453.2	259.0	235.3	220.2	204.1	194.2	187.5	186.1	185.2
55°	3124.9	2399.4	481.1	254.8	224.5	208.4	191.8	181.4	175.2	172.4	171.9
57.5°	3616.9	2826.6	587.2	249.1	214.5	195.6	179.5	169.1	162.4	159.1	158.2
60°	4058.7	3265.5	772.3	245.8	206.0	181.8	165.3	155.8	149.6	146.3	145.9
62.5°	4544.1	3684.1	993.5	254.8	202.2	168.6	152.0	143.5	138.3	135.0	135.0
65°	5062.6	4103.2	1139.8	285.1	207.9	158.2	137.8	130.7	126.0	123.6	123.1
67.5°	5412.1	4248.1	939.0	316.3	222.1	146.8	124.1	118.4	115.5	113.2	113.2
69°	5374.2	4064.9	692.8	324.4	226.4	141.1	116.5	112.2	108.4	107.5	106.5
70°	5254.4	3856.0	580.6	319.2	223.0	135.9	111.8	106.5	103.2	102.3	101.8
72.5°	4680.0	3344.1	432.3	277.5	189.9	117.9	99.0	94.2	91.4	90.0	90.0
75°	3888.2	2733.3	337.6	220.7	148.7	99.4	84.8	81.0	78.6	77.7	77.2
77.5°	2179.2	1526.2	242.5	172.8	112.7	80.5	71.0	67.7	65.3	64.4	64.4
80°	607.1	436.1	142.5	114.1	76.7	61.1	56.4	54.0	50.7	48.3	49.7
82.5°	228.7	188.9	81.4	68.7	48.8	40.7	39.3	37.4	36.0	32.7	32.7
85°	111.3	91.9	52.1	36.5	27.0	21.3	20.4	19.4	18.5	16.1	16.6
87.5°	38.4	40.7	22.7	13.3	8.1	5.2	4.3	2.4	2.4	2.4	2.4
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)