

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: INVUE

Report Number: P367946

Luminaire Tested: **MSA-SA3C-730-U-SL2**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-730-U-SL2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 16471 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

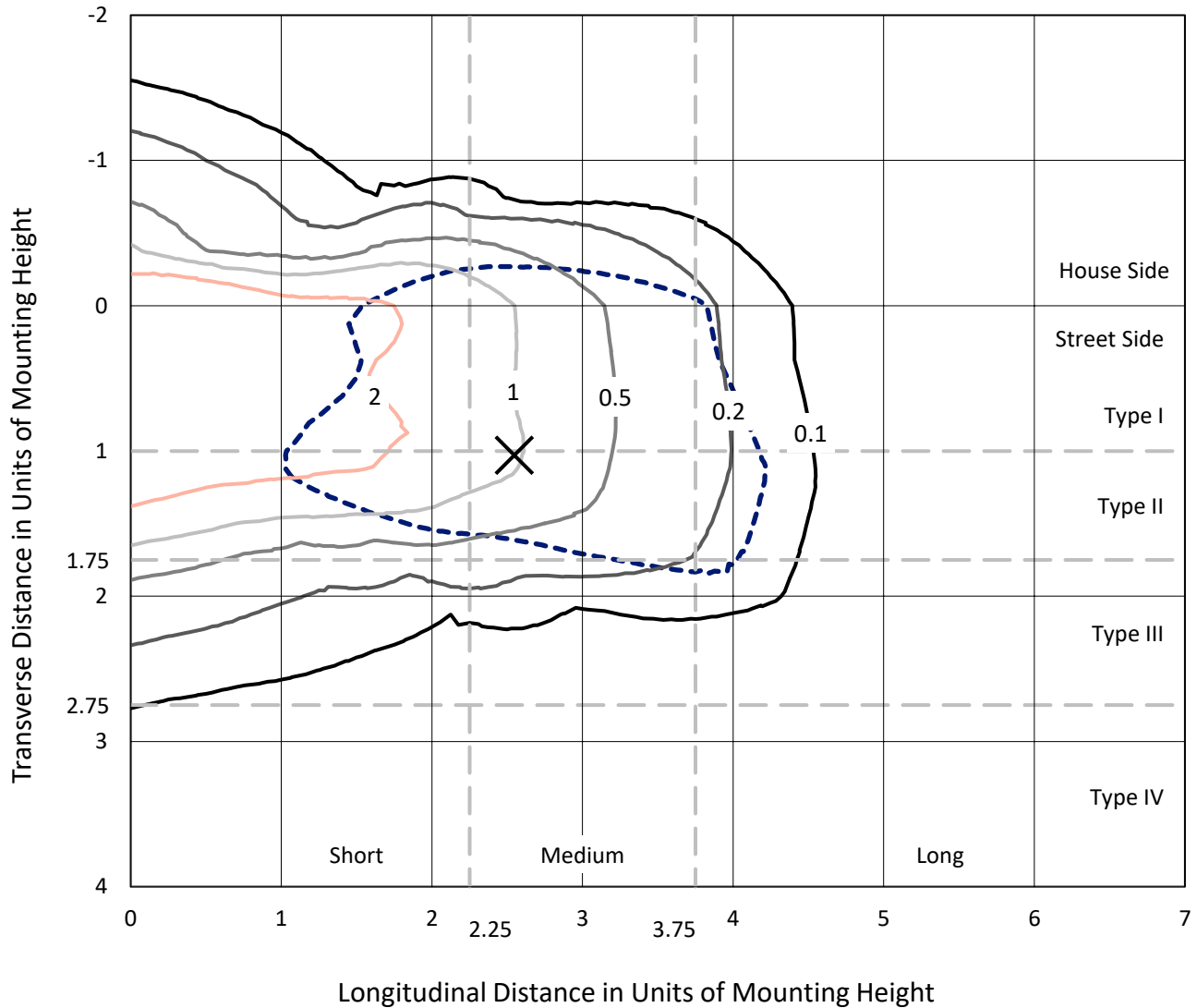
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

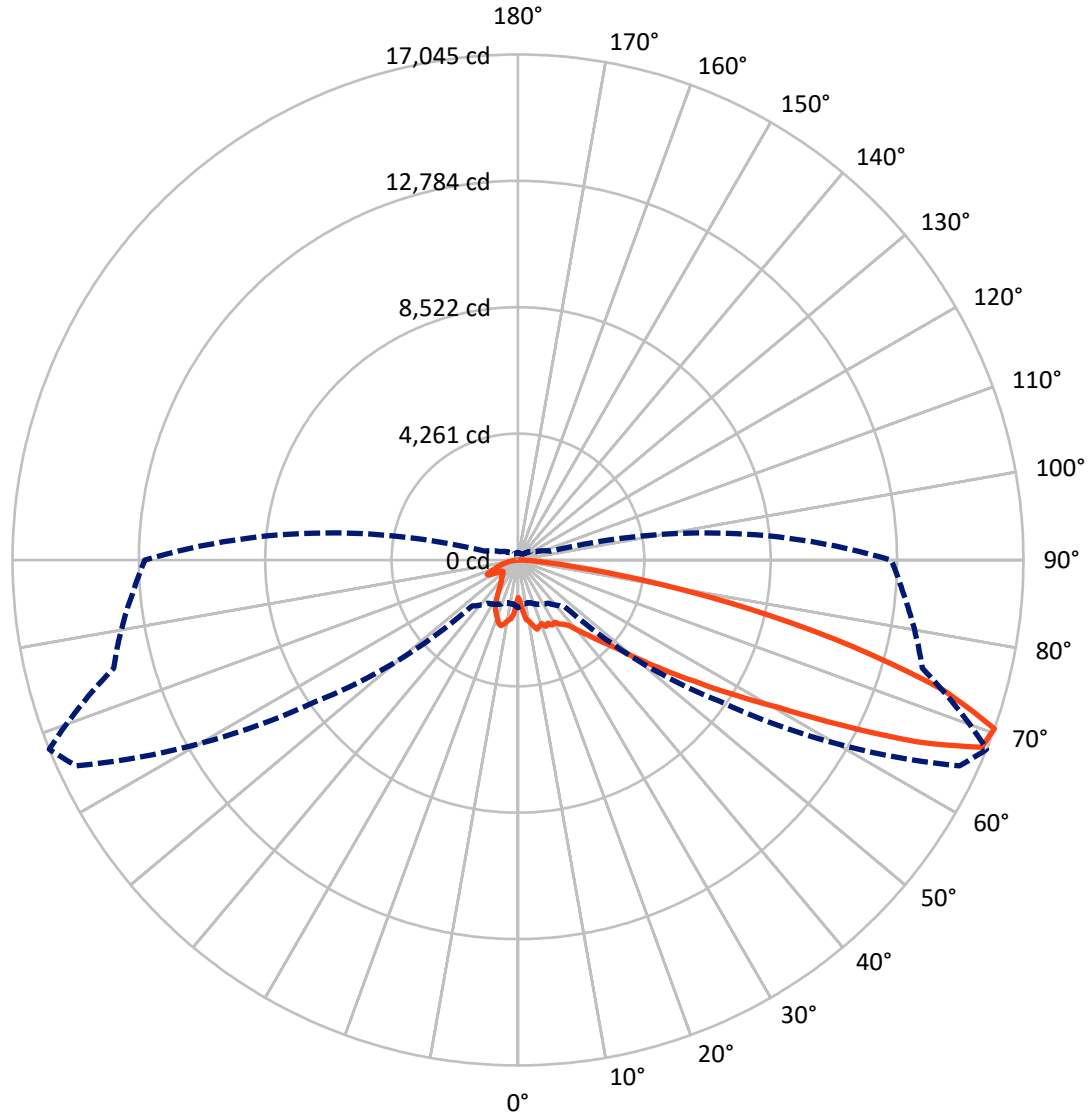
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3144.7	0.0	3144.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	13326.3	0.0	13326.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	16471.0	0.0	16471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.0
10°-20°	549.7	3.3
20°-30°	836.2	5.1
30°-40°	1277.3	7.8
40°-50°	2196.3	13.3
50°-60°	3635.3	22.1
60°-70°	4481.8	27.2
70°-80°	2879.0	17.5
80°-90°	446.6	2.7
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°	16471.0	100.0
0°-180°	16471.0	100.0

Coefficient of Utilization

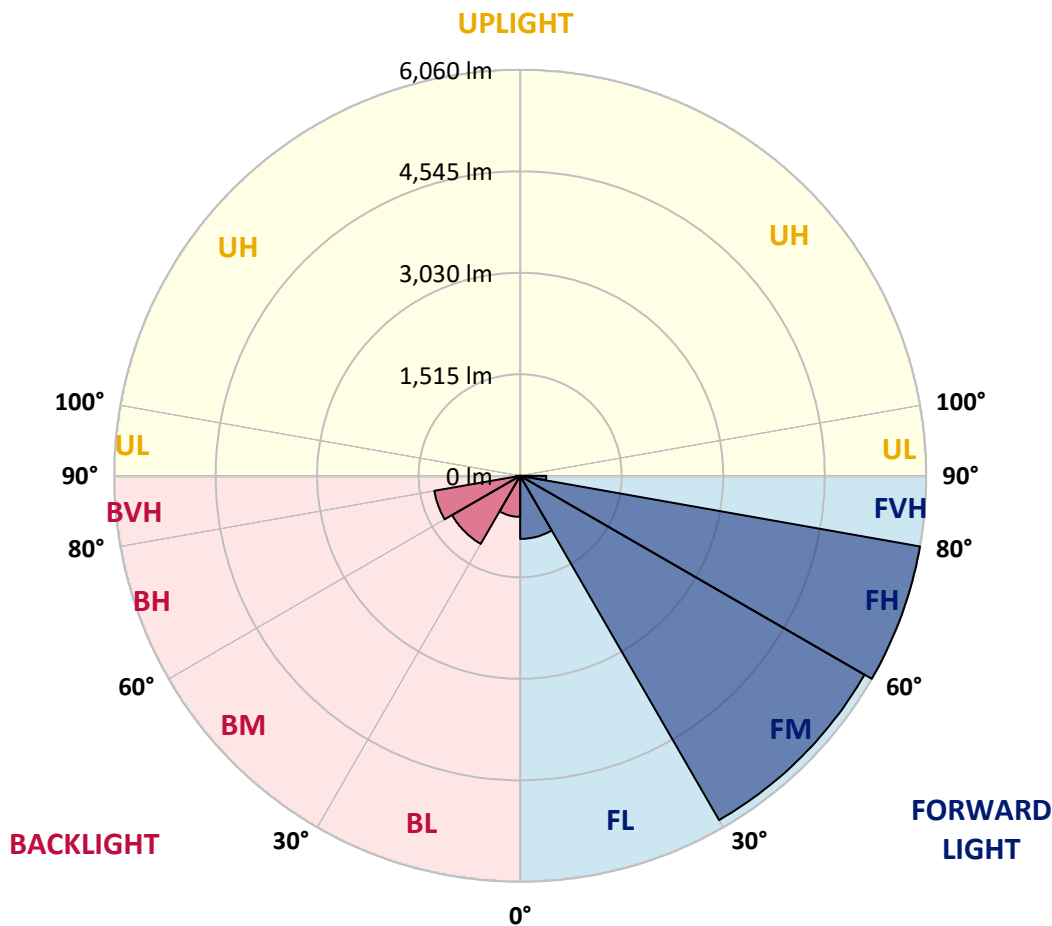


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.9	5.7			
FM (30°-60°)	5935.1	36.0			
FH (60°-80°)	6060.0	36.8			G3/7500
FVH (80°-90°)	389.3	2.4			G3/500
BL (0°-30°)	612.8	3.7	B2/1000		
BM (30°-60°)	1173.8	7.1	B2/2500		
BH (60°-80°)	1300.8	7.9	B3/2500		G3/2500
BVH (80°-90°)	57.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9
2.5°	1451.1	1392.5	1333.2	1362.2	1408.3	1449.0	1440.7	1445.6	1389.7	1382.1	1529.0
5°	1709.6	1608.9	1606.9	1608.3	1612.4	1565.5	1679.9	1739.2	1752.3	1813.0	1957.1
7.5°	1799.2	1758.5	1717.2	1737.9	1685.5	1690.3	1830.9	1985.3	2021.9	2066.0	2263.1
10°	1780.6	1742.0	1754.4	1757.8	1767.5	1845.4	1935.7	2083.9	2114.9	2255.6	2306.6
12.5°	1783.3	1776.5	1834.4	1836.4	1939.8	2079.8	2115.6	2252.1	2264.5	2367.9	2580.9
15°	1877.8	1925.4	1893.0	1910.2	1930.2	2097.7	2149.4	2345.2	2419.6	2552.7	2712.6
17.5°	2061.8	2075.6	1978.4	1952.9	2018.4	2069.4	2187.3	2272.1	2350.0	2721.6	2942.1
20°	2104.6	2141.8	2026.0	1894.3	2032.9	2103.9	2185.9	2224.5	2285.2	2746.4	3059.3
22.5°	2288.0	2210.7	2070.8	1956.4	2001.9	2070.8	2130.1	2275.5	2434.8	2675.4	3176.5
25°	2392.0	2347.2	2222.5	2099.8	2061.2	2063.2	2177.7	2307.9	2363.1	2779.5	3200.0
27.5°	2643.7	2572.0	2291.4	2268.0	2122.5	2009.5	2185.2	2387.9	2484.4	2698.1	3314.4
30°	2958.7	2904.2	2536.1	2505.1	2283.1	2086.0	2281.7	2447.2	2433.4	2751.2	3393.7
32.5°	3213.8	3304.7	2933.2	2688.5	2530.6	2341.7	2251.4	2436.9	2574.0	2874.6	3528.1
35°	3577.7	3663.2	3242.7	3077.3	2734.7	2460.3	2463.0	2578.9	2663.6	3018.7	3678.4
37.5°	4207.8	4132.7	3794.2	3532.9	3313.7	2904.2	2781.5	2740.9	2809.1	3195.1	3972.7
40°	4662.1	4598.7	4200.2	4051.3	3624.6	3386.8	3050.4	3011.8	3132.4	3377.1	4213.3
42.5°	5200.5	5087.4	4716.5	4593.8	4147.8	3719.0	3379.9	3401.9	3460.5	3720.4	4538.7
45°	5748.5	5474.1	5263.9	5254.2	4956.4	4364.3	3908.6	3890.7	3892.8	4225.7	4904.0
47.5°	6183.5	5936.7	5696.1	5581.7	5431.4	5480.3	4676.6	4466.3	4402.9	4734.5	5452.1
50°	6477.8	6193.8	5921.5	5894.6	6295.8	6559.9	5397.6	5172.9	5212.2	5462.4	6182.8
52.5°	6484.0	6146.9	5862.9	6051.1	6996.2	7374.0	6639.8	6011.8	6137.3	6307.6	7136.2
55°	6033.2	5683.7	5498.9	5927.7	7269.9	8339.8	8385.3	7356.1	7211.3	7274.0	8275.7
57.5°	5082.6	4729.6	4622.1	5135.7	6750.8	9271.1	10493.3	8962.2	8537.6	8275.7	9443.4
60°	3825.9	3520.5	3453.6	3781.1	5596.8	8997.4	12200.1	10961.4	10096.2	9394.5	10614.6
62.5°	2869.1	2649.9	2549.2	2596.1	3872.8	8107.4	13321.0	13487.1	12262.2	10616.0	11758.9
65°	2331.4	2154.2	2064.6	2003.9	2408.6	6269.0	13118.3	15613.1	14792.1	11898.9	12649.6
67.5°	1947.4	1790.2	1748.9	1808.2	1904.0	3637.0	11532.8	16802.2	16858.1	13164.5	13170.0
70°	1616.5	1500.0	1484.9	1653.1	1779.2	2194.9	8330.1	16428.6	17044.9	14113.8	13048.0
72.5°	1249.1	1186.4	1184.3	1448.3	1767.5	1870.9	4960.6	14192.3	15020.3	13810.4	11854.1
75°	866.5	823.1	856.2	1190.5	1726.8	1897.8	2831.2	11054.4	11674.1	11752.0	9495.8
77.5°	596.3	559.8	595.6	861.0	1542.1	1943.3	1980.5	7993.0	8062.0	7880.7	5439.0
80°	415.0	389.5	417.1	609.4	1200.2	1923.3	1686.2	5032.3	4617.3	3517.1	1741.3
82.5°	257.1	249.5	279.9	434.3	845.1	1749.6	1597.9	2596.8	1982.6	970.6	621.8
85°	135.1	124.1	162.7	283.3	528.7	1373.2	1497.3	1185.0	765.2	344.7	249.5
87.5°	40.0	35.8	62.7	114.4	224.0	615.6	856.9	502.5	285.4	101.3	77.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9
2.5°	1539.3	1531.7	1429.7	1442.8	1464.9	1470.4	1469.7	1432.5	1393.2	1502.8	1499.3
5°	1960.5	1892.3	1841.3	1830.2	1767.5	1704.8	1726.8	1719.2	1709.6	1759.2	1765.4
7.5°	2263.8	2169.4	2110.1	1957.8	1813.0	1687.5	1727.5	1739.9	1715.1	1804.7	1831.6
10°	2343.8	2269.3	2205.2	2009.5	1929.5	1856.4	1748.2	1624.8	1608.3	1556.6	1562.8
12.5°	2549.9	2539.6	2321.0	2148.7	2044.6	1899.2	1665.5	1515.9	1387.7	1393.9	1356.6
15°	2712.6	2718.1	2455.5	2214.2	1935.0	1713.0	1438.0	1251.9	1120.2	1094.0	1067.1
17.5°	2931.1	2920.1	2466.5	2135.6	1782.0	1456.6	1119.5	934.8	912.7	927.9	904.4
20°	3026.2	2929.0	2396.2	1940.5	1542.8	1106.4	845.8	747.9	790.7	851.3	852.7
22.5°	3111.7	2945.6	2359.6	1783.3	1224.3	804.5	679.0	661.1	711.4	793.4	800.3
25°	3108.3	3022.1	2294.2	1624.8	949.2	628.0	590.1	603.2	663.2	748.6	753.5
27.5°	3264.8	2963.5	2123.9	1416.6	714.9	537.7	547.3	571.5	599.7	681.1	696.9
30°	3263.4	3072.4	2038.4	1163.6	574.2	492.9	517.7	538.4	561.8	636.3	645.2
32.5°	3340.6	3001.4	1986.7	905.1	514.9	481.9	488.1	508.7	542.5	592.8	599.0
35°	3433.7	3082.1	1821.3	719.0	492.9	472.2	477.0	488.7	519.8	566.0	572.2
37.5°	3732.1	3097.3	1755.8	605.9	491.5	468.1	467.4	473.6	508.7	550.8	569.4
40°	3848.6	3235.8	1564.8	566.0	486.7	468.1	458.4	461.9	490.8	544.6	559.1
42.5°	4127.8	3282.0	1423.5	552.2	486.7	459.8	444.6	450.1	483.9	531.5	554.2
45°	4415.3	3347.5	1255.3	549.4	486.0	459.1	430.2	442.6	470.1	510.1	534.9
47.5°	4824.8	3583.2	1087.1	541.1	480.5	462.6	426.7	426.0	450.1	484.6	508.1
50°	5492.7	3951.4	956.8	530.8	481.2	459.8	419.8	410.2	426.0	456.3	479.1
52.5°	6422.7	4578.7	905.8	525.3	475.7	448.8	408.1	392.9	401.9	426.0	448.1
55°	7502.2	5425.9	956.1	525.3	464.6	431.5	391.6	373.6	378.5	395.0	416.4
57.5°	8763.7	6478.5	1199.5	517.7	450.8	410.9	371.6	350.9	352.3	366.7	386.0
60°	10081.1	7654.5	1744.7	511.5	441.2	388.1	348.1	326.8	324.7	338.5	355.7
62.5°	11400.5	8739.6	2318.3	526.0	438.4	368.8	323.3	301.9	301.2	313.7	328.1
65°	12449.7	9481.3	2461.0	584.6	456.3	346.7	297.8	277.8	276.4	286.8	302.6
67.5°	12964.6	9588.9	1869.5	657.6	494.3	326.1	273.0	254.4	253.0	264.0	277.8
70°	12583.4	8854.0	1154.0	665.2	492.2	301.9	247.5	231.6	228.9	240.6	250.9
72.5°	11173.0	7744.9	876.9	588.7	426.0	267.5	222.0	208.2	204.0	214.4	224.0
75°	8967.8	6149.0	702.4	475.0	335.7	225.4	196.5	183.4	178.5	188.2	196.5
77.5°	5223.9	3459.2	513.6	370.9	253.7	184.1	167.5	155.8	150.3	160.6	166.8
80°	1698.6	1152.6	322.6	266.1	185.4	144.1	135.8	127.5	122.0	128.9	131.0
82.5°	610.1	428.8	178.5	163.4	123.4	103.4	102.7	97.9	91.0	93.8	93.8
85°	270.2	195.8	106.2	87.5	73.8	55.1	64.8	61.4	54.5	53.1	51.0
87.5°	75.8	64.8	38.6	29.6	24.1	9.0	20.7	18.6	15.2	13.8	9.7
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)