

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: P157234

Luminaire Tested: **VTS-F04-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157234
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F04-LED-E1-5MQ-7030
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

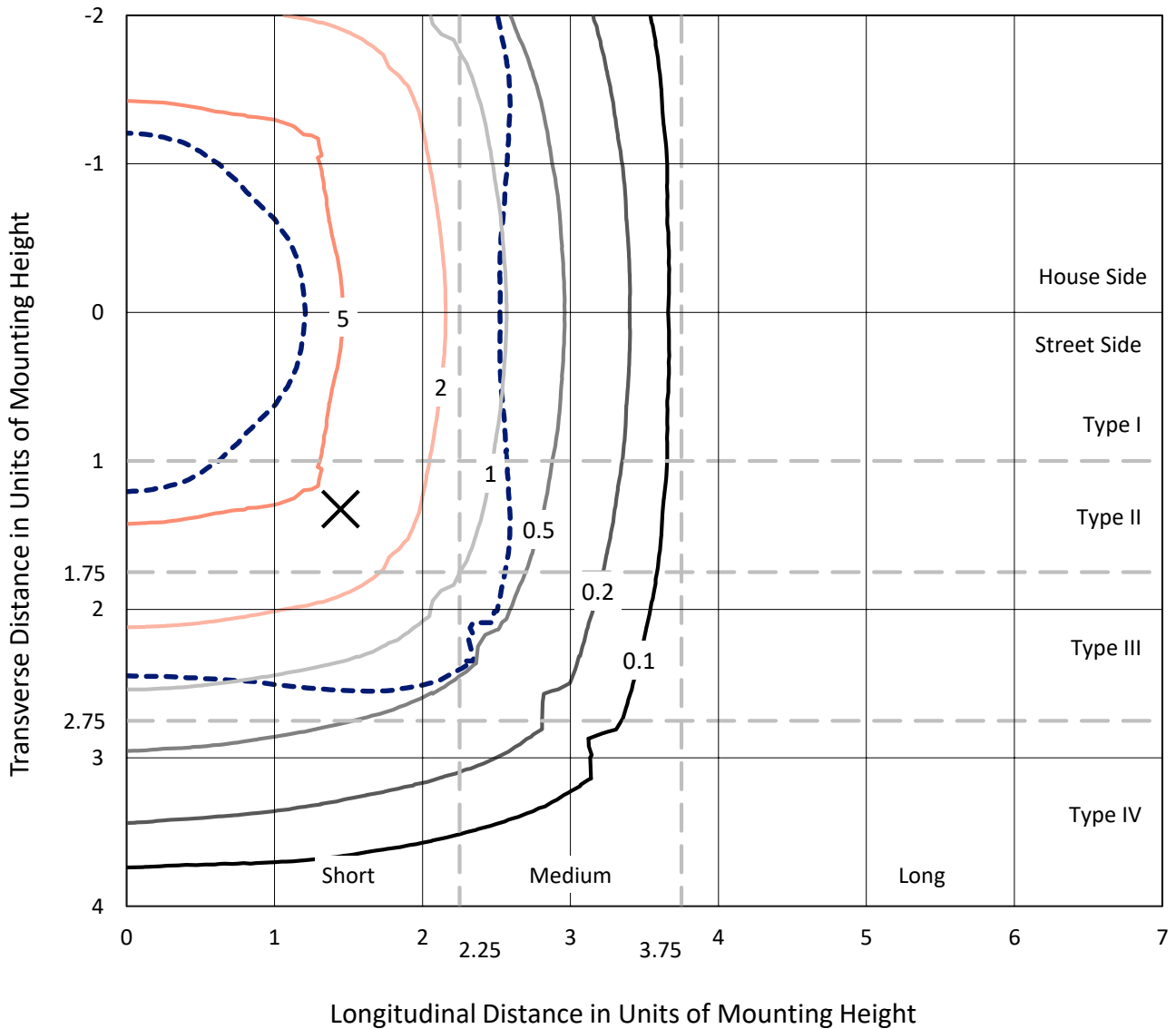
Lumens per Lamp: N/A
Luminaire Lumens: 9647.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.2
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

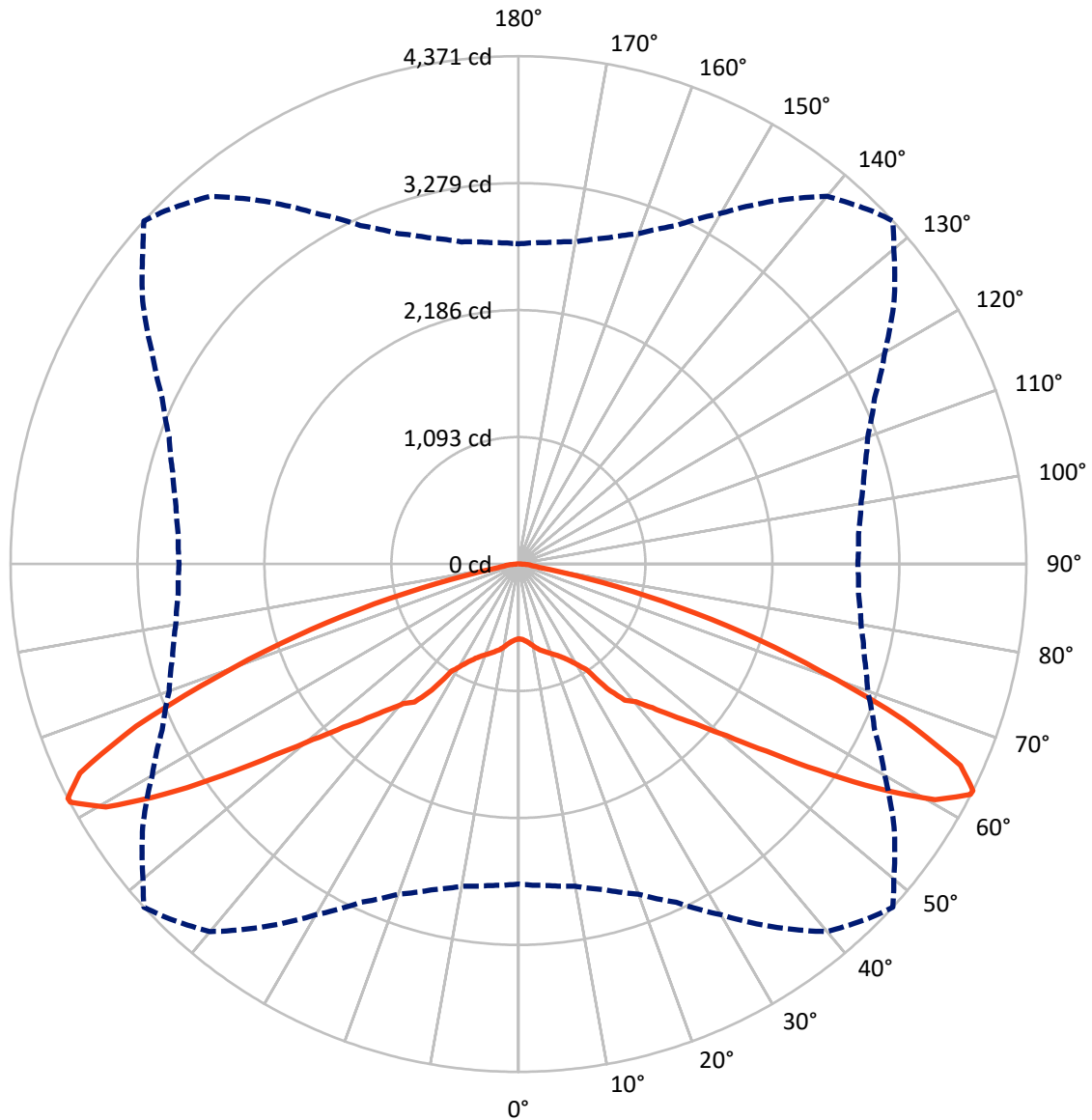
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4823.8	0.0	4823.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4823.8	0.0	4823.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	9647.7	0.0	9647.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	0.7
10°-20°	219.8	2.3
20°-30°	420.5	4.4
30°-40°	804.4	8.3
40°-50°	1391.9	14.4
50°-60°	2499.8	25.9
60°-70°	3039.8	31.5
70°-80°	1097.8	11.4
80°-90°	108.7	1.1
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°	9647.7	100.0
0°-180°	9647.7	100.0

Coefficient of Utilization



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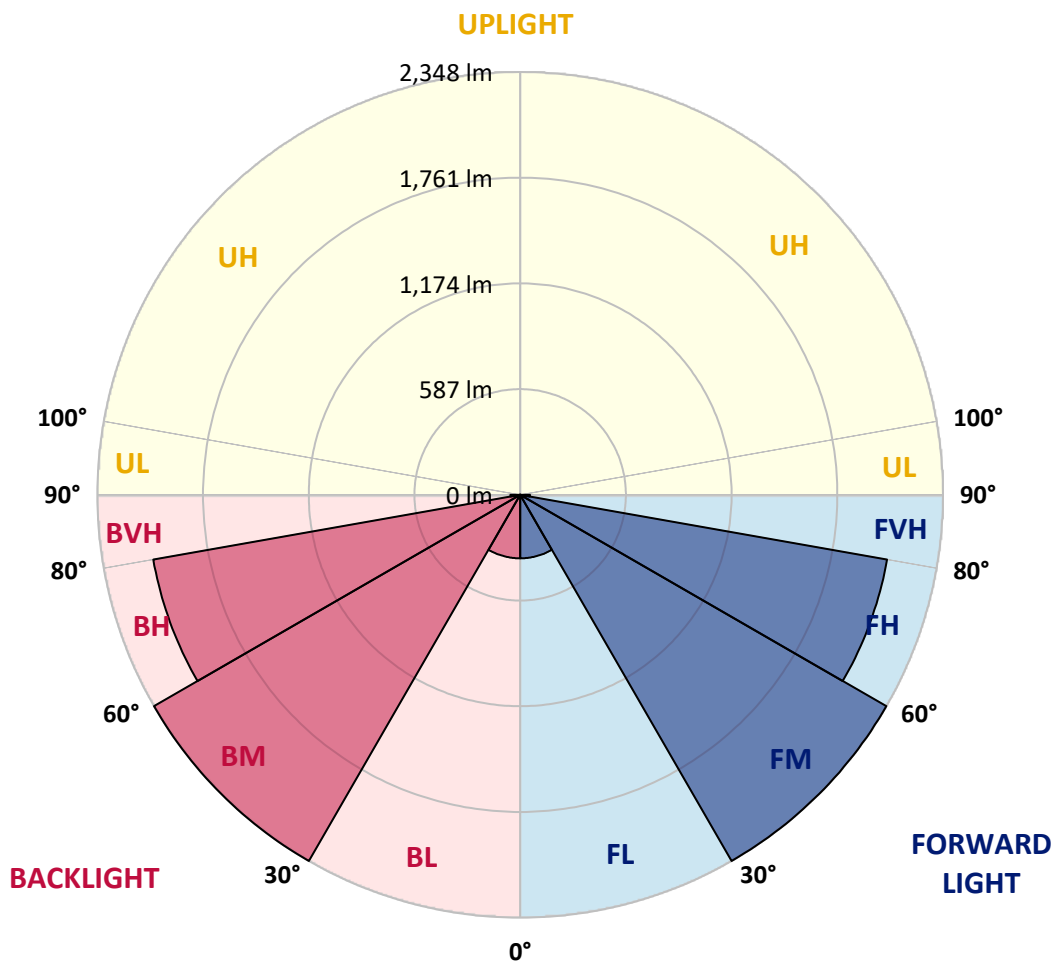
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.5	3.7			
FM (30°-60°)	2348.1	24.3			
FH (60°-80°)	2068.8	21.4			G2/5000
FVH (80°-90°)	54.4	0.6			G1/100
BL (0°-30°)	352.5	3.7	B1/500		
BM (30°-60°)	2348.1	24.3	B2/2500		
BH (60°-80°)	2068.8	21.4	B3/2500		G2/5000
BVH (80°-90°)	54.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	644.2	644.2	644.2	644.2	644.2	644.2	644.2	644.2	644.2	644.2	644.2
2.5°	648.4	647.2	647.8	648.4	647.8	647.2	647.2	647.2	648.4	647.2	650.2
5°	661.1	659.9	660.5	660.5	660.5	659.3	659.3	659.3	658.7	659.3	665.9
7.5°	685.2	683.4	682.8	684.0	682.8	682.2	681.6	681.6	680.4	680.4	688.8
10°	714.2	711.8	713.0	713.6	711.8	710.6	710.6	710.6	708.8	708.2	719.0
12.5°	746.2	744.9	744.9	743.7	743.1	741.9	741.3	741.9	739.5	739.5	750.4
15°	776.9	774.5	775.1	773.3	772.1	770.9	770.3	769.7	768.5	768.5	775.1
17.5°	805.3	803.5	802.9	801.0	799.2	797.4	796.2	795.6	793.8	793.8	799.8
20°	834.8	833.0	831.8	828.8	825.8	824.0	821.6	820.3	817.9	818.5	825.2
22.5°	868.6	865.6	863.2	860.8	855.3	851.7	848.7	846.3	845.1	845.1	854.1
25°	913.8	912.0	908.4	900.6	893.9	888.5	883.7	881.3	878.9	877.6	891.5
27.5°	969.3	967.5	962.7	954.9	945.8	936.8	931.3	927.1	924.1	922.3	942.2
30°	1042.9	1039.9	1035.7	1023.0	1015.2	1001.3	995.3	989.2	982.6	984.4	1007.9
32.5°	1187.1	1182.9	1169.6	1155.7	1131.6	1112.9	1093.6	1079.1	1065.2	1063.4	1088.8
35°	1318.0	1316.2	1313.8	1304.1	1295.1	1283.6	1274.6	1259.5	1246.8	1243.8	1315.0
37.5°	1388.6	1392.8	1389.2	1388.0	1388.0	1393.4	1410.3	1427.2	1439.2	1446.5	1486.3
40°	1496.5	1496.5	1492.3	1489.9	1485.1	1492.3	1499.5	1512.2	1517.6	1518.2	1558.7
42.5°	1619.0	1619.6	1615.4	1608.1	1605.7	1612.3	1622.0	1634.1	1641.3	1643.1	1690.2
45°	1755.3	1753.5	1749.9	1747.5	1749.3	1755.3	1766.8	1790.3	1801.1	1809.6	1860.9
47.5°	1903.1	1915.1	1904.9	1906.7	1906.7	1925.4	1951.3	1970.6	1988.1	2004.4	2058.7
50°	2096.7	2098.5	2100.3	2105.8	2109.4	2134.1	2166.7	2189.6	2214.9	2236.0	2324.7
52.5°	2355.5	2351.9	2360.9	2366.9	2387.4	2400.7	2455.0	2484.0	2518.9	2546.1	2675.8
55°	2664.9	2663.1	2676.4	2681.2	2708.3	2740.9	2801.2	2864.6	2924.3	2957.5	3134.8
57.5°	2886.9	2891.7	2914.6	2946.6	2999.7	3069.1	3158.9	3298.9	3412.3	3448.5	3643.9
60°	2935.7	2951.4	2985.8	3049.8	3140.8	3269.9	3446.7	3660.8	3868.3	3937.7	4121.0
62.5°	2798.8	2816.9	2867.6	2944.2	3063.0	3254.2	3509.4	3811.6	4119.8	4274.2	4366.5
63°	2755.4	2777.7	2815.7	2904.4	3025.0	3213.8	3485.3	3811.0	4130.7	4299.0	4371.4
65°	2551.5	2555.7	2612.4	2701.1	2836.8	3032.9	3306.7	3683.1	4037.8	4232.0	4181.9
67.5°	2195.6	2213.1	2260.8	2350.0	2482.1	2686.0	2983.4	3331.4	3643.3	3798.3	3574.5
70°	1774.0	1772.8	1831.9	1903.7	2020.1	2199.2	2459.8	2774.1	3021.4	3134.2	2759.6
72.5°	1267.3	1235.9	1279.4	1359.0	1454.3	1597.3	1803.6	2047.8	2269.2	2366.9	2017.7
75°	577.3	568.8	607.4	686.4	782.9	910.2	1079.7	1290.8	1503.2	1617.8	1285.4
77.5°	194.2	196.6	211.7	240.1	291.9	355.9	461.4	596.6	768.5	881.9	603.2
80°	130.3	133.9	138.7	143.0	149.0	158.6	181.6	216.5	269.6	326.3	190.6
82.5°	106.8	111.0	121.8	126.7	130.3	133.3	135.1	137.5	137.5	138.7	120.6
85°	76.6	83.8	98.3	107.4	111.0	113.4	116.4	120.0	114.6	109.8	93.5
87.5°	26.5	36.2	53.1	58.5	62.7	63.3	67.6	74.8	71.2	57.9	28.4
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	644.2	644.2	644.2	644.2	644.2	644.2	644.2	644.2	644.2
2.5°	647.2	646.6	647.2	647.8	647.8	647.8	648.4	649.0	649.0
5°	659.3	659.9	659.3	659.9	659.9	660.5	660.5	661.7	661.7
7.5°	679.8	681.0	680.4	681.6	681.6	682.8	682.2	684.0	684.0
10°	707.5	708.8	710.0	710.6	710.0	711.2	712.4	713.0	712.4
12.5°	738.9	739.5	738.9	740.1	740.1	741.3	741.3	743.1	743.1
15°	767.9	767.3	766.7	768.5	769.7	770.3	771.5	773.3	771.5
17.5°	793.8	794.4	793.2	795.0	797.4	799.2	800.4	802.9	802.2
20°	819.7	818.5	819.7	822.8	825.2	827.6	830.0	833.6	833.0
22.5°	845.1	846.3	849.3	851.7	855.9	859.6	862.6	867.4	869.2
25°	880.7	880.7	885.5	888.5	894.5	899.4	906.0	911.4	914.4
27.5°	925.9	925.9	931.3	938.0	947.0	955.5	962.7	969.9	968.7
30°	987.4	990.4	995.3	1003.7	1015.8	1026.0	1035.7	1042.9	1043.5
32.5°	1068.3	1071.9	1086.4	1108.1	1133.4	1152.7	1167.2	1184.7	1187.1
35°	1251.6	1260.7	1279.4	1296.9	1307.1	1318.6	1325.8	1326.4	1327.6
37.5°	1444.7	1429.0	1414.5	1401.2	1395.2	1394.0	1394.0	1396.4	1397.6
40°	1515.2	1507.4	1500.7	1492.3	1494.7	1494.1	1498.3	1502.0	1504.4
42.5°	1635.9	1629.8	1623.8	1612.9	1619.0	1617.2	1623.2	1628.6	1631.6
45°	1804.2	1785.5	1772.2	1754.7	1760.7	1757.1	1757.1	1763.7	1764.9
47.5°	1989.9	1968.2	1941.1	1919.4	1912.1	1905.5	1911.5	1911.5	1904.9
50°	2212.5	2186.6	2154.6	2119.6	2107.6	2100.9	2103.3	2106.4	2087.7
52.5°	2514.7	2485.8	2440.5	2387.4	2376.0	2370.6	2369.3	2365.1	2360.3
55°	2924.3	2870.0	2814.5	2744.5	2723.4	2717.4	2718.0	2713.2	2724.6
57.5°	3407.4	3327.8	3199.9	3114.9	3064.2	3044.9	3027.4	3020.2	3020.8
60°	3885.8	3723.5	3532.3	3383.9	3277.8	3210.2	3157.1	3127.6	3119.1
62.5°	4194.0	3938.9	3651.7	3411.1	3236.7	3125.2	3041.3	2988.2	2971.3
63°	4218.1	3947.9	3640.9	3382.7	3199.3	3082.3	2994.3	2939.4	2921.3
65°	4165.7	3856.8	3499.1	3191.5	2990.6	2861.0	2765.6	2713.8	2699.9
67.5°	3757.9	3500.9	3136.6	2818.7	2616.1	2484.6	2375.4	2325.9	2310.2
70°	3057.0	2880.9	2582.3	2310.8	2122.0	1995.4	1885.0	1844.0	1843.4
72.5°	2266.2	2037.6	1859.6	1660.6	1495.9	1395.2	1299.3	1253.4	1230.5
75°	1498.9	1254.0	1055.0	887.3	723.2	632.8	524.8	478.3	451.2
77.5°	755.2	559.8	401.1	278.1	215.9	177.3	162.3	154.4	153.8
80°	251.5	188.8	162.3	152.0	149.0	149.6	147.8	144.8	141.1
82.5°	139.3	146.6	147.8	143.6	143.6	141.1	138.7	127.3	121.2
85°	119.4	131.5	132.7	130.3	129.7	126.1	121.8	106.2	97.1
87.5°	74.8	86.3	84.4	75.4	83.2	77.8	73.6	47.7	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)